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A Catalog of Compact Groups of Galaxies in the SDSS Commissioning Data

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ABSTRACT

Compact groups (CGs) of galaxies — relatively poor groups of galaxies in which the typical separations between members is of the order of a galaxy diameter — offer an exceptional laboratory for the study of dense galaxian environments with short ($<$ 1 Gyr) dynamical time-scales.

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In this paper, we present an objectively defined catalog of CGs in 153 sq deg of the Sloan Digital Sky Survey Early Data Release (SDSS EDR). To identify CGs, we applied a modified version of Hickson's (1982) criteria aimed at finding the highest density CGs and thus reducing the number of chance alignments. Our catalog contains 175 CGs down to a limiting galaxy magnitude of $r^* = 21$. The resulting catalog has a median depth of $z_{\rm med} \approx 0.13$, substantially deeper than previous CG catalogs. Since the SDSS will eventually image up to one quarter of the celestial sphere, we expect our final catalog, based upon the completed SDSS, will contain on the order of 5,000 – 10,000 CGs. This catalog will be useful for conducting studies of the general characteristics of CGs, their environments, and their component galaxies.

Subject headings: surveys — catalogs — atlases

1. Introduction

Perhaps over half of all galaxies lie within groups containing 3 – 20 members (Tully 1987); yet, due to the difficulty of discerning them from the field, groups of galaxies are, as a whole, not as well studied as larger galaxy systems. Compact groups of galaxies (CGs), however, defined by their small number of members (< 10), their compactness (typical intra-group separations of a galaxy diameter or less), and their relative isolation (intra-group separations $\ll$ group-field separations) are readily identifiable. Studies of CGs mainly concentrate on two issues: (1) What is the origin and relative importance of CGs in the Universe? (2) Is there a relation between the global properties of these systems and the formation and evolution of their member galaxies? The possibility that these two issues are connected makes CGs particularly interesting (see the review by Hickson 1997).

The first example of a CG was found over one hundred years ago by Stephan (1877). The best known catalog is that of the Hickson Compact Groups (HCGs; Hickson 1982, 1993), a sample comprising 100 groups selected from the red (E) prints of the Palomar Observatory Sky Survey (POSS). Other catalogs now available include an initial DPOSS CG catalog (Iovino et al. 2003), the Southern CG catalog (Iovino 2002; Prandoni et al. 1994), and those extracted from the 3D UZC galaxy catalog (Focardi & Kelm 2002) and from the CfA2 (Barton et al. 1996) and Las Campanas (Allam & Tucker 2000) redshift surveys.

Due to their high densities (equivalent to those at the centers of rich clusters) and low velocity dispersions (roughly 200 km s^{-1}), CGs represent an environment where interactions, tidally triggered activity, and galaxy mergers are expected to be more prevalent than in most other environments. Studies of interacting galaxy pairs, both in the infrared and ultraviolet, suggest that interactions can trigger an inflow of gas to the galactic nucleus, resulting in either starburst or AGN activity. Although individual CGs are known to contain starbursts and AGN (Menon 1995; Ribeiro et al. 1996), samples of CG galaxies as a whole do not appear to show rates of either activity enhanced beyond that of the field (Pildis et al. 1995; Allam 1998; Allam et al. 1999).

Some calculations have predicted extremely short dynamical lifetimes for CGs, $t_{\rm dyn} < 1$ Gyr, leading to speculation that many or most CGs may in fact be chance alignments instead of real structures (Mamon 1986). However, evidence of interactions and the discovery of diffuse intra-group X-ray gas within perhaps as many as 75% of the HCGs (Hickson 1997; Mulchaey 2000) attest to their physical reality.

N-body simulations have pointed out two possible classes of solution to the short dynamical time problem. The first is that there is ongoing formation of CGs, and the longevity of the group is due to secondary infall. In this case, CGs must be continually forming in moderately dense environments like those of loose groups, and, in fact, many are seen to be embedded in such systems (Ramella et al. 1994; Barton et al. 1996; Diaferio, Geller, & Ramella 1994, 1995; de Carvalho et al. 1997; Coziol et al. 1998; Ribeiro et al. 1998; Tovmassian et al. 2001, 2002).

In the second class of solution, the longevity of CGs is due to either their specific initial conditions or a massive halo encompassing the entire group (Athanassoula 2000). Athanassoula et al. (1997) have shown that CGs with an appropriate arrangement of luminous and dark matter can persist for ~ 25 Gyr; that massive common dark matter halos around CGs might indeed exist is not inconsistent with with the analysis of the dynamics of satellite galaxies within individual CGs (Perea et al. 2000).

Thus, CGs have sparked intense interest, both in their formation and evolutionary histories, and in the interaction phenomena associated with these dense environments. Our difficulties in understanding the existence of CGs and their dynamics may be a consequence of the small samples studied so far. Further progress will require a larger, deeper, and more uniform sample of CGs with which to study their nature, evolution, and origin. The Sloan Digital Sky Survey (York et al. 2000), which will eventually cover up to one quarter of the sky with uniform photometry in five filters, makes for an obvious CG hunting ground.

We have thus embarked on a project to extract an objectively defined catalog of CGs from the SDSS (Lee, Tucker, & Allam 2001a; Lee, Tucker, & Brinkmann 2001b), starting with Runs 752 and 756 of the SDSS Early Data Release (EDR) (Stoughton et al. 2002). We present this initial catalog as follows. In § 2 we describe the region of the sky used for this preliminary search. In § 3, we describe our CG catalog construction techniques. In § 4 we present the catalog and an atlas of corresponding postage-stamp images for the individual groups. In § 5 we compare the properties of this catalog to those of previous CG catalogs. In § 6 we compare the properties of SDSS CG member galaxies to the properties of SDSS field galaxies. In § 7 we conclude and describe our future plans. Throughout the paper, a flat Λ cosmological model with $\Omega_{\rm M} = 0.3$, $\Omega_\Lambda = 0.7$, and $H_0 = 100h$ km s^{-1} Mpc^{-1} is assumed.

2. The Data

The SDSS has as its goal to image up to 10,000 sq deg (π steradians) of the Northern Galactic Cap in five different filters (u, g, r, i, z) and to perform followup spectroscopy of 10^6 galaxies and 10^5 quasars selected from the imaging survey. The Survey will be complete (S:N $\sim$ 5:1) to limiting u g r i z magnitudes of roughly 22.3, 23.3, 23.1, 22.3 and 20.8 respectively. An additional three stripes in the Southern Galactic Cap will be observed repeatedly for variability studies and will reach a co-added depth of $g \sim 25$.

While the SDSS was originally planned to be on the $u'g'r'i'z'$ system of Fukugita et al. (1996), the delivered filters do not perfectly conform to this system. The photometric calibration system for SDSS (called $ugriz$) had only been finalized as of the recent Data Release 1 (DR1) (Abazajian et al. 2003) , so the preliminary magnitudes as presented in this paper, which are based upon a pre-DR1 calibration, will be denoted as u^*, g^*, r^*, i^*, and z^* (for more details see Stoughton et al. 2002). The system used in this paper should differ absolutely from the final ($ugriz$) SDSS photometric system by only a few percent. [See Fukugita et al. (1996), Gunn et al. (1998), York et al. (2000), Hogg et al. (2001), Lupton et al. (2001), Smith et al. (2002), Stoughton et al. (2002), Blanton et al. (2003a), and Pier et al. (2003) for further details about the photometric and spectroscopic surveys.]

The base galaxy catalog for the present study was generated from the spring equatorial scan subset of the SDSS EDR data (Stoughton et al. 2002). Instead of using the star-galaxy classifications from the standard SDSS imaging pipeline (`photo`), however, we chose to use the more robust classifications measured by the code of Scranton et al. (2002). Galaxies were separated from stars using a Bayesian method which combines the automated classifications from the photometric pipelines with a correction for variations in seeing and assigns a probability for each object being a galaxy (Scranton et al. 2002). The accurate astrometry (Pier et al. 2003) combined with color and morphological information derived from the SDSS digital images (Lupton et al. 2001) allows for robust star-galaxy separation to a limiting magnitude of ~ 22 (with 1.75 arcsecond or better seeing). Very few objects have an uncertain star-galaxy probability (near 50%); thus we have simply cut at 50%. This method suffers less at the faint end from stellar contamination than does the standard SDSS EDR star-galaxy separation. Our earliest CG catalogs using pre-EDR versions of the SDSS outputs had stellar contamination (a star identified as a galaxy) in as many as 25% of the selected CGs. Using the Scranton et al. (2002) catalog and cutting at a galaxy likelihood of 50%, our catalogs now have at worst 5% stellar contamination.

This star-galaxy separation breaks down for small, faint galaxies, and routines used for this initial study do not measure bright or large galaxies well. The combination limits the present study to galaxies within the r^* magnitude range of 14.0 to 21.0 (which limits the brightest CG member to r^* between 14.0 and 18.0, see § 3), excluding much of the HCG catalog but still providing some overlap.

The data presented here are from Runs 752 and 756 (a $\sim 2.5°$ wide stripe from $\alpha = 145°$ to $236°$ centered on $\delta = 0°$) which were observed on the nights of 1999 March 20 and 22. Galaxies from the entire $\sim$ 230 sq deg region were used for checking the isolation criteria described in § 3, however, in order to obtain the least stellar contamination of the galaxy sample, only CGs observed in frames with seeing $\leq$ 1.6 arcseconds were retained for the catalog, yielding an effective area on the sky for our base sample of 153 sq deg (see Fig. 1).

Finally, we note that the Scranton et al. (2002) galaxy catalog was based upon an earlier processing ("rerun") of the imaging data reductions than is presented in the final SDSS EDR. As a result, $u^*g^*r^*i^*z^*$ magnitudes may differ slightly from the values obtained by a direct query of the SDSS EDR database. Similarly, although each object's run, camera column, and field identification numbers will remain the same, the object identification number within the field will likely differ from the value provided by the SDSS EDR database.

3. Catalog Construction

Hickson's (1982) criteria for extracting compact groups from the POSS red (E) prints include the following:

- $N \geq 4$ (population),
- $\theta_N \geq 3 \times \theta_G$ (isolation), and
- $\mu_G < 26.0$ mag arcsec^{-2} (compactness),

where

- N is the total number of galaxies within 3 magnitudes of the brightest group member,
- μ_G is the total magnitude of these galaxies per square arcsec averaged over the smallest circle containing their geometric centers (note that using a mean surface brightness yields, to first order, a distance-independent measure of compactness),
- θ_G is the angular diameter of this smallest circle, and
- θ_N is the angular diameter of the largest concentric circle that contains no other (external) galaxies within this magnitude range or brighter.

Searching the POSS prints, which cover 67% of the celestial sphere, by eye, Hickson found 100 CGs; the median redshift of this sample is $z_{\rm med} = 0.03$.

To select our SDSS CGs we use computer code embodying a slightly modified Hickson criteria to extract a CG catalog from this galaxy catalog:

- $14.0 \leq r^* \leq 21.0$,
- $10 \geq N \geq 4$,
- $\theta_N > 3 \times \theta_G$, and
- $\mu_G < 24.0$ mag arcsec^{-2} (in SDSS r^* band),

where r^* is the SDSS r-band *model* magnitude, which tends to be more robust than the SDSS r-band *Petrosian* magnitude for galaxies fainter than $r^* \sim 18$ (see Stoughton et al. 2002 for definitions of the various SDSS magnitudes).

Three changes were made from the Hickson criteria. The first merely added an upper limit of $N \leq 10$ to the number of members in a CG. This additional limit was added in order to constrain the run-time of the group-finding algorithm, which is basically an n^2 process. Since the most populous group in our catalog contains only $N = 7$ members, this was (intentionally) not a very restrictive constraint. The second modification simply requires that θ_N is strictly greater than $3 \times \theta_G$ instead of greater than or equal to; this change simplified the coding of the algorithm which identifies isolated groups and finds the smallest enclosing circle.

The third, the change from $\mu_G < 26.0$ to $\mu_G < 24.0$ mag arcsec^{-2}, resulted from tests suggested by Iovino (private communication, see also Iovino 2001, 2002; Iovino et al. 2003) to reduce the rate of false CG detection. Following the approach described by Iovino 2002 and Iovino et al. 2003, we estimated the number of non-real CGs produced through random alignments as a function of μ_G, and compared it with the number of CGs found in the original SDSS catalog. Using a subset of our galaxy catalog, we generated a randomized galaxy catalog by assigning to each galaxy an RA and DEC drawn at random from within the area of the subset; a value for the seeing at this random position was taken to be that for the nearest galaxy to this position in the real catalog. The compact group finding code was then run on this randomized galaxy catalog to generate a list of false CGs produced by projection effects, and this fake CG catalog was compared to the portion of our real CG catalog from the same region. In fig (2,a) shows the histogram of surface brightness for CGs in each catalog. The ratio of random to real CGs is $\approx 4\%$ when restricting the search to CGs with $\mu_G < 24.0$, while the ratio increases to 55% within 24.0< $\mu_G \leq 25.0$ and 80% within 25.0< $\mu_G \leq 26.0$. From this plot it is clear that cutting at $\mu_G < 24$ leaves a much more clean (and compact) catalog. In fig (2,b) we show a histogram of the difference in magnitude between the dimmest and brightest group member (Δr^*) where the maximum allowed by the Hickson criteria is 3. In contrast with Iovino et al. (2003), for our sample we found no strong trend in the contamination rate as a function Δr^*. There may be a small offset between the peaks, but a large gain in detection efficiency was unlikely to come from modifying this selection parameter in our algorithm. We therefore restricted the surface brightness limit to be $\mu_G < 24$ mag arcsec^{-2}, and left Δr^* unchanged, in order to reduce the contamination rate of our sample to reasonable values.

In addition, we examined the isolation criterion, which required that the next closest galaxy bright enough to be in the group or brighter be at least three group radii away. Allam & Tucker (2000) found that one third of their compact groups are part of larger structures, also de Carvalho et al. (1997) and Ribeiro et al. (1998) found that a large fraction of HCGs are part of larger structures, and only a small number of groups can be defined as truly isolated. To overcome this problem, Iovino et al. (2003) adopt a flexible isolation criterion, such that no galaxy of magnitude brighter than mag of the faintest CG member + 0.5 mag is within the isolation radius. Our algorithm, which builds groups based on adding the closest galaxies which are in the correct magnitude range to be members, did not allow any flexibility in lowering the isolation criteria. However we did note that the majority of the closest non-member galaxies (which were eligible for membership) for our groups were within ± 0.5 magnitudes of the dimmest group member (73%) and were between three and four group radii of the center of the group (51%). (Numbers for the random catalog were similar, at 73% within ± 0.5 magnitudes and 40% nearby, thus relaxing isolation will add random alignments in nearly equal proportion to real groups.) Relaxing the isolation criteria for dim galaxies should be explored in our future efforts, as it seems likely the strict isolation criteria used excluded some compact groups.

Using our modified Hickson criteria, we found a total of 232 candidate CGs in 153 sq deg. In order to identify any potential weaknesses of our selection technique and improve future versions, each of these candidate CGs was inspected by eye, and much of the SDSS r band imaging data (the corrected frames) for these candidate CGs were re-analyzed using GAIA (Draper 2000) and SExtractor (Bertin and Arnouts 1996) to double-check galaxy identification.

Of these 232 candidate CGs, 175 survived inspection to be included in the final CG catalog. Of the 57 which were discarded, 55 were found to be false detections due to poor deblending [18] of saturated bright stars or angularly large galaxies and/or poor magnitude determination of faint diffuse objects in the original SDSS image processing. Another 2 candidate groups were found to contain a QSO which was mis-classified by `photo` and SExtractor as a galaxy. These 2 groups are listed as Tri since they contain only 3 galaxies.

4. The Catalog

Our final catalog of SDSS CGs, extracted from 153 sq deg of sky from Runs 752 Run 756 of the Scranton et al. (2002) galaxy catalogs in the SDSS EDR, contains a total of 744 galaxies in 175 CGs. Of the 744 CG member galaxies, 158 have spectroscopic redshifts (135 from the SDSS itself). Despite this low number, 131 (75%) of SDSS CGs contain at least one group member with a spectroscopic redshift. The properties of the CGs are described in Table 1; the properties of the CG member galaxies are described in Table 2.

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[18] `http://www.sdss.org/dr1/algorithms/deblend.html`

4.1. The Properties of the Compact Groups

In Table 1 we list the general properties of all 175 SDSSCGs (plus two Triplet systems):

Column (1): A running identification number.

Column (2): $\alpha_{\rm circ}$, the RA (J2000.0) of the center of the smallest circle containing all group members within 3 magnitudes of the brightest group member.

Column (3): $\delta_{\rm circ}$, the DEC (J2000.0) of the center of the smallest circle containing all group members within 3 magnitudes of the brightest group member.

Column (4): θ_G, the angular diameter of this smallest circle (in arcsec).

Column (5): μ_G, the total r^* magnitude of the N [Column (6)] group members averaged over the smallest circle containing their geometric centers.

Column (6): N, the total number of galaxies in the group within 3 magnitudes of the brightest group member.

Column (7): Δr^*, the difference in the r^* magnitude between the brightest group member and the faintest.

Column (8): θ_N/θ_G, the ratio of θ_N, the angular diameter of the largest concentric circle that contains no other (external) galaxies within 3 magnitudes of the brightest group member, to θ_G, the angular diameter of the smallest circle containing all group members within this magnitude range [Column (4)].

Column (9): $z_{\rm photo}^{\rm bgm}$, the photometric redshift of the brightest group member as determined by the method described in § 4.4.

Column (10): $z_{\rm spectro}^{\rm cg}$, the spectroscopic redshift for the group based upon the median of the spectroscopic redshifts of its member galaxies (see Table 2). If available, a group member's SDSS spectroscopic redshift was used; otherwise, if available, its spectroscopic redshift from NED (the NASA Extragalactic Database), was used.

Column (11): $N_{\rm spectro}^{\rm cg}$, the number of group member spectroscopic redshifts used in determining $z_{\rm spectro}^{\rm cg}$.

Column (12): comments

+1: a faint background galaxy is visible which could be a member of the group

+2: two faint background galaxies are visible which could be members of the group

isolated?: faint background galaxies are visible which could be members of the group

M(ab): galaxies a and b appear to be merging

I(ab): galaxies a and b appear to be interacting

T(a): galaxy a shows a tidal tail

h(abc): galaxies a, b, and c appear to be embedded within a common halo

QSO(a): galaxy a is classified as a QSO in NED

4.2. The Properties of Group Members

In Table 2 we list the general properties of the individual member galaxies in each of the 175 SDSSCGs (and the 2 Triplet systems):

Column (1): Name of the group member, composed of the CG identification number (from Column (1) of Table 1) and an identification letter for galaxy (where "a" is the brightest group member, "b" the second brightest, ...).

Column (2): α, the RA (J2000.0) of the galaxy.

Column (3): δ, the DEC (J2000.0) of the galaxy.

Column (4): The SDSS r-band model magnitude r^* (non-de-reddened).

Column (5): The estimated rms error in the SDSS r-band model magnitude σ_{r^*}.

Column (6): The reddening in r^*, $A(r^*) = 2.751 \times E(B-V)$, as estimated from the Schlegel, Finkbeiner, & Davis (1998) reddening maps.

Column (7): $u^* - g^*$, where u^* and g^* are, respectively, the (non-de-reddened) SDSS u-band and g-band model magnitudes.

Column (8): $\sigma_{u^*-g^*}$, the rms error in $u^* - g^*$ [Column (8)] estimated by adding the rms errors in u^* and g^* in quadrature.

Column (9): $g^* - r^*$, where g^* and r^* are, respectively, the (non-de-reddened) SDSS g-band and r-band model magnitudes.

Column (10): $\sigma_{g^*-r^*}$, the rms error in $g^* - r^*$ [Column (10)] estimated by adding the rms errors in g^* and r^* in quadrature.

Column (11): $r^* - i^*$, where r^* and i^* are, respectively, the (non-de-reddened) SDSS r-band and i-band model magnitudes.

Column (12): $\sigma_{r^*-i^*}$, the rms error in $r^* - i^*$ [Column (12)] estimated by adding the rms errors in r^* and i^* in quadrature.

Column (13): $i^* - z^*$, where i^* and z^* are, respectively, the (non-de-reddened) SDSS i-band and z-band model magnitudes.

Column (14): $\sigma_{i^*-z^*}$, the rms error in $i^* - z^*$ [Column (14)] estimated by adding the rms errors in i^* and z^* in quadrature.

Column (15): $z_{\rm sp}$, the spectroscopic redshift for the galaxy as measured by the SDSS, if available. Of the 744 CG members, 135 have SDSS spectroscopic redshifts.

Column (16): $z_{\rm NED}$, the spectroscopic redshift for the galaxy from the NASA Extragalactic Database (NED), if available. Of the 744 CG members, 49 have spectroscopic redshifts from NED. Of these 49, 23 have no corresponding spectroscopic redshift from the SDSS.

Column (17): the source name of the NED-derived spectroscopic redshift [Column (16)].

4.3. The Atlas

For each of the SDSSCGs (and the two Triplets) we have prepared an atlas image (see Fig 16). These atlas images have the following properties:

- the size of each image is 3× the group radius;
- the images were obtained from the r-band SDSS corrected frames;
- each image is labeled by the name of the group, which has the format "SDSS0 CGNN", where "SDSS0" refers to the fact that this catalog is based on SDSS commissioning data ("Data Release 0"), and where NN refers to the running ID number of the group;
- each group member is identified by a "×" mark and labeled by its ID letter (a, b, c, d, ...);
- the center of the group is marked by a square box; and
- a circle of diameter θ_G (as defined in § 3) is also drawn.

4.4. The Redshift Distribution

As noted at the beginning of this section, only 158 of the 744 CG member galaxies have spectroscopic redshifts either from the SDSS or from the literature (see Fig. 3). Our magnitude cut for CG galaxies is $r^*_{\rm model} \leq 21.0$ (§ 3), whereas the magnitude limit for the main galaxy sample of the SDSS spectroscopic program is $r^*_{\rm petro} \leq 17.7$ [Table 29 of Stoughton et al. (2002)]. Further complicating matters is an SDSS single plate target proximity limit of 55 arcsec to avoid fiber collisions (Blanton et al. 2003a), which in general would allow only a single galaxy from a compact group to be targeted on a spectroscopic plate. Therefore, it is not surprising that so few of our CG galaxies have spectroscopically determined redshifts. Nonetheless, these 158 galaxies are spread fairly uniformly over the SDSS CG sample; so, a full 75% of our CGs (131 out of 175) contain at least one group member with a spectroscopically determined redshift.

We were, however, able to obtain a photometric redshift for every SDSS CG (see Table 1). We did this by taking the photometric redshift of the brightest group member as the photometric redshift of the CG as a whole. These brightest group member photometric redshifts were determined by a variation on the polynomial method of Connolly et al. (1995). Instead of using polynomials, however, Padé approximants (Gershenfeld 1999) were used. Padé approximants, which have seen applications in statistical mechanics, critical phenomena, and circuit design (Baker & Graves-Morris 1996), are basically ratios of polynomials. As a training sample, $\approx$ 500 main sample galaxies (Strauss et al. 2002) and $\approx$ 500 Luminous Red Galaxies (LRGs) (Eisenstein et al. 2001) were taken from the SDSS spectroscopic sample; the low-redshift training set sample was supplemented with an additional $\approx$ 500 galaxies from a special spectroscopic plate which attempts to sample fully from the bright end of the luminosity function at $z < 0.15$ (Lin et al. 2003). Details on this method can be found elsewhere (Annis et al. 2003).

In calculating the photometric redshifts of the CGs, we ignored the non-first-ranked group members since using them tended to result in systematic errors of $\Delta z = 0.1$ or more. This is likely due to the fact that 85% of the non-first-ranked galaxies in our sample are fainter than $r^* = 17.7$, where the training set for our photometric redshift relation is dominated by LRGs, a type of galaxy which probably does not describe these fainter CG galaxies very well as a whole. In contrast, only 16% of brightest group members are fainter than $r^* = 17.7$ — and none fainter than $r^* = 18$; furthermore, since LRGs have luminosities and spectral energy distributions similar to brightest cluster members, the LRG training set is probably better suited to our brightest group members than for the fainter group members.

How well does a brightest group member photometric redshift, $z_{\rm photo}^{\rm bgm}$, track the group's spectroscopic redshift, $z_{\rm spectro}^{\rm cg}$? In Figure 4a, we plot these two parameters against each other for those 131 SDSS CGs which contain at least one member with a spectroscopic redshift. The relationship is quite good. The rms of the residual of the unweighted least squares fit of brightest group member photometric redshift to the group spectroscopic redshift is $\sigma_z = 0.037$ (Fig. 4b), which means that the typical 1σ rms error in the photometric redshift of an individual group is about 0.037. Further, if we plot the histograms of $z_{\rm photo}^{\rm bgm}$ and $z_{\rm spectro}^{\rm cg}$, we find that, overall, the two distributions look quite similar (Fig. 5).

Based on the 131 SDSS CGs with spectroscopic redshifts, we can estimate that the median redshift of the full sample of 175 SDSS CGs to be $<z_{\rm spectro}>_{\rm med} = 0.126$. This estimate, however, may be biased: 25% of the SDSS CGS in the full sample of have no spectroscopic redshifts and this subset may be systematically more (or less) distant than the rest of the SDSS CGs. In Figure 6 we plot the distribution of photometric redshifts for the 131 SDSS CGs with spectroscopic redshifts and the distribution of photometric redshifts for the 44 SDSS CGs without spectroscopic redshifts. Indeed, the set of 44 SDSS CGs without spectroscopic redshifts appears to be, on average, more distant than the set of 131 galaxies with spectroscopic redshifts. Even so, it is a smaller set, and, if we combine both sets of CGs, we find the median photometric redshift for the full sample of 175 SDSS CGs to be $<z_{\rm photo}>_{\rm med} = 0.136$. This value is only marginally larger than our estimate for $<z_{\rm spectro}>_{\rm med}$. Therefore, unless otherwise noted, we will use the spectroscopic redshifts throughout the remainder of the paper.

4.5. The Local Environment

Following Palumbo et al. (1995)'s and Iovino (2002)'s studies of the local environments surrounding HCGs and SCGs, we have undertaken a similar study of the local environments surrounding SDSS CGs.

For each SDSS CG we searched a circular region 5× the group's radius θ_G in the SDSS EDR data base for galaxies in the interval $r^*_{\rm bgm} < r^* < r^*_{\rm fgm} + 1$, where $r^*_{\rm bgm}$ and $r^*_{\rm fgm}$ are the SDSS r-band model magnitudes of the brightest and the faintest group members, respectively, for that particular group, as listed in Table 2. The surface density of the SDSS CG ($\rho^{\rm SDSSCG}$) was obtained by dividing the number of these galaxies within 1 group radius by $0.25\pi\theta_G^2$. The surface density of galaxies in that SDSS CG's local environment $\rho^{\rm env}$ was calclated by dividing the number of these galaxies in an annulus $3-10\times$ the group's radius by the area of this annulus.

The distribution of the ratio $\rho^{\rm SDSSCG}/\rho^{\rm env}$ is shown in Figure 7. Note that the surface densities of SDSS CGs are factors of $5-3000$ greater than those of their local environments (on average, they are about a factor of 40 greater), similar to what Palumbo et al. (1995) found for HCGs and what Iovino (2002) found for SCGs.

To test how the local environment of SDSS CGs compares with that of the field, we considered the local environments of galaxies from the SDSS isolated galaxy catalog Allam et al. (2003). For each SDSS CG, we selected isolated galaxies of comparable brightness to the brightest group member ($r^*_{\rm bgm} - 0.5 < r^* < r^*_{\rm bgm} + 0.5$) and observed under comparable seeing conditions. We then calculated the surface density of galaxies surrounding of each of these isolated galaxies in an annulus $3-10\times$ the group's radius, just like we did to calculate $\rho^{\rm env}$ for the SDSS CG in question. We then calculated the mean value of the field $\rho^{\rm env}$ and its scatter $\sigma_{\rho_{\rm field}}$. Figure 8 shows the histogram of the quantity $(\rho^{\rm env}_{\rm SDSSCG} - \rho^{\rm env}_{\rm field})/\sigma_{\rho_{\rm field}}$. We find that the environments of SDSSCGs are, on average, similar to the environments of field galaxies, although there is considerable scatter. This result is comparable to those found by Palumbo et al. (1995) for HCGs and by Iovino (2002) for SCGs.

5. Comparison with other CGs

It is instructive to compare the properties of SDSSCGs with those of CGs from other catalogs. In Table 3 we summarize the properties of the current SDSSCG catalog and those of six other CG catalogs — the initial DPOSS Compact Group (PCG) catalog by Iovino et al. (2003), the Southern Compact Group (SCG) catalog by Iovino (2002), the UZC Compact Group (UZC-CG) catalog by Focardi & Kelm (2002), the Las Campanas Compact Group (LCCG) catalog by Allam & Tucker (2000), the Redshift Survey Compact Group (RSCG) catalog by Barton et al. (1996), and the Hickson Compact Group (HCG) catalog by Hickson (1982, 1993).

Of these seven CG catalogs, four are based upon galaxy sky positions and photometry alone (the SDSSCG, PCG, SCG, and HCG catalogs), and three also make use of galaxy redshift information (the UZC-CG, LCCG, and RSCG catalogs).

Looking at this table and its companion figures (Figs. 9, 11, & 12), it is apparent that SDSSCGs are quite similar to most other CG catalogs in terms of their typical group membership (N) and linear group diameter ($D \times \theta_G$; Fig. 12). With the possible exception of the PCG catalog, however, the SDSSCG catalog is on average much deeper than any of the other CG catalogs. (Although we do not have redshift information for the SCG catalog, the mean and median angular diameters of its groups, coupled with a galaxy magnitude limit of $b_j = 15.0$, indicate that it has a depth comparable to that of the RSCG catalog.) With such a mean depth, the SDSSCG catalog is a first step toward the study of the evolutionary properties of CGs. Furthermore, at these depths, the probability of finding CGs acting as strong lenses becomes noticeably higher (Hickson 1997); perhaps a CG from a future SDSSCG catalog will be the first to be discovered with giant arcs.

It is also curious to see that, although we used a compactness criterion to detect SDSSCGs that was substantially tighter than the original Hickson (1982) value, the mean surface brightnesses (μ_G) in r^* for SDSSCGs and HCGs are nearly identical. Recall that the HCG catalog was extracted from the first Palomar Sky Survey (POSS-I) via a search-by-eye. Hickson (1982) expected, and Prandoni et al. (1994) confirmed, that the HCG catalog was incomplete approaching the limits of the Hickson criteria. Here, we appear to be seeing an independent confirmation of the HCG catalog's incompleteness for "less compact" CGs as clearly seen in Fig 10.

Finally, although a detailed calculation of the space density of CGs is beyond the scope of this paper, we can perform a rough, "back-of-the-envelope" estimate by assuming that a given CG sample is complete out to its median redshift and calculating

$$n_{\rm cg} = \frac{0.5N}{(A/41253 \text{ sq deg})\frac{4}{3}\pi D_{\rm c}^3}, \tag{1}$$

where $n_{\rm cg}$ is the estimated CG space density, N is the total number of CG's in the sample, A is the sky area covered by the sample in square degrees, and $D_{\rm c}$ is the co-moving distance at the median redshift of the survey. We use a Euclidean measure of the volume since we will assume a zero-curvature Universe in which $\Omega_{\rm M} = 0.3$ and $\Omega_\Lambda = 0.7$ (see, for example, Hogg 2000).

In particular, we wish to compare the space density of SDSS CGs with that of the PCG catalog, which is presently the only other deep ($z \gtrsim 0.1$), wide area survey for CGs, and with that of the HCG catalog, which remains the benchmark for all CG catalogs.

For the SDSS CGs, we take $N = 175$, $A = 253$ sq deg, and $z_{\rm med} = 0.126$ ($D_{\rm c} = 368h^{-1}$ Mpc), yielding an estimated space density of $1.1 \times 10^{-4}h^3$ Mpc^{-3}. Using the above equation, we can also estimate the space density of the PCG catalog. For the PCGs, we take $N = 84$, $A = 2000$ sq deg, and $z_{\rm med} = 0.1$ ($D_{\rm c} = 280h^{-1}$ Mpc), yielding an estimated space density of $9.4 \times 10^{-6}h^3$ Mpc^{-3}. Clearly, the space density of SDSS CGs is about a factor of ten greater than that for PCGs. The PCG catalog, however, has a much tighter mean group surface brightness constraint. If we consider just the 14 SDSS CGs that satisfy the PCG surface brightness criterion, we find a space density for "PCG-like" SDSS CGs of $9.0 \times 10^{-6}h^3$ Mpc^{-3} — almost identical to the value obtained for the original PCG sample. This is a good consistency check between these two modern CG catalogs.

Comparing the space density of CGs with that of HCGs is a bit harder. Since the HCG catalog is known to be incomplete, we cannot merely use equation 1. Using simulations, Mendes de Oliveira & Hickson (1991) estimated that the space density for HCGs is $3.9 \times 10^{-5}h^3$ Mpc^{-3}, or about one-third the space density of SDSS CGs. Worse yet, SDSS CGs have a more stringent surface brightness criterion. We find that 63% (58 out of 92) of HCGs meet the SDSS CG surface brightness constraint. Thus, the space density of SDSS CG-like HCGs should be about $2.5 \times 10^{-5}h^3$ Mpc^{-3}, or only about one-fifth to one-fourth the space density of SDSS CGs.

Four possibilities come readily to mind to explain this discrepancy. (1) The HCG catalog may still be substantially incomplete even for surface brightnesses of $\mu_G(r^*) < 24.0$. If so, a more complete sample of HCG-like groups would have a higher space density. (2) Mendes de Oliveira & Hickson (1991)'s estimate of the space density of HCGs is itself uncertain and is very sensitive to the assumptions regarding the completeness of the HCG sample (Hernquist, Katz, & Weinberg 1995). Therefore, the discrepancy may not be very statistically significant. (3) Cosmic variance may play an effect. Out to their median redshifts, the HCG and the SDSS CG volumes are both roughly equivalent to boxes only $100h^{-1}$ Mpc on a side. (4) Although much care was taken to avoid contamination by chance projections (§ 3), the SDSS CG catalog itself probably contains some small fraction of spurious groups, thus artificially increasing our estimated space density of SDSS CGs. We suspect that some combination of these four possibilities will eventually explain the present discrepancy.

6. Morphology-Environment Effects in SDSS CGs

To search for environmental effects on the morphologies of CG galaxies, we have used the subsample of 158 SDSSCG galaxies which have known spectroscopic redshifts. In order to compare this sample fairly, we have constructed a field sample by selecting for each of these 158 SDSSCG galaxies the ten galaxies with the nearest redshifts to it from the SDSS EDR (Eisenstein et al. 2001;

Strauss et al. 2002). Since these ten galaxies will tend to be randomly spread in RA and DEC over the SDSS EDR survey area, they will reasonably sample the field with little contamination from clusters. (Recall that only about 10% of galaxies lie within rich clusters). We have thus collected a field sample of 1580 galaxies which has a redshift distribution essentially identical to that of the original 158 SDSSCG galaxies. That we met this goal is attested to by the fact that the means and medians of the two redshift distributions are identical (Table 4). Furthermore, a one-dimensional Kolmogorov-Smirnov (KS) test (Press et al. 1992) indicates that these two redshift distributions are drawn from the same parent distribution with an extremely high probability (Table 5).

A galaxy's color is a function of current star formation rate, and, as such, its color can be used as a rough indication of morphological type. Red galaxies tend to be Ellipticals and S0's; blue galaxies tend to be Spirals and Irregulars. The SDSS data set contains not one but five filters' worth of photometry, which can define a set of four non-redundant colors: $(u^* - g^*)$, $(g^* - r^*)$, $(r^* - i^*)$, and $(i^* - z^*)$. We will use this plethora of color information to compare our two samples.

For our comparisons, we construct Color-Color and Color-Magnitude Diagrams for these two samples. To do this, though, we must first correct the galaxy magnitudes and colors for interstellar absorption and for cosmological effects. To correct for interstellar absorption, the following reddening corrections (Stoughton et al. 2002) were subtracted from the galaxy magnitudes:

$$\begin{aligned} A(u^*) &= 5.155 \times E(B-V) \\ A(g^*) &= 3.793 \times E(B-V) \\ A(r^*) &= 2.751 \times E(B-V) \\ A(i^*) &= 2.086 \times E(B-V) \\ A(z^*) &= 1.479 \times E(B-V) \end{aligned} \tag{2}$$

where the values for $E(B-V)$ were obtained from the Schlegel, Finkbeiner, & Davis (1998) reddening maps. (Note that we correct only for interstellar absorption due to the Milky Way Galaxy and do not attempt to correct for internal interstellar absorption associated with the individual galaxies themselves.)

We also apply a k-correction to convert the de-reddened colors and magnitudes to their rest-frame (i.e., redshift $z = 0$) equivalents. Our k-corrections were estimated using the publicly available `kcorrect` (v1.10) package of Blanton et al. (2003b). This code fits a galaxy's (redshifted) broad-band magnitudes to a suite of template galaxy spectral energy distributions in order to reconstruct the galaxy's broad-band magnitudes at another redshift (e.g., at a redshift of $z = 0$).

Finally, to calculate absolute r^* magnitudes, we must assume a cosmological model. We take the current standard — a flat model with $\Omega_{\rm M} = 0.3$, $\Omega_\Lambda = 0.7$, and $H_0 = 100h$ km s^{-1} Mpc^{-1} — using the analytical relation by Pen (1999) to calculate luminosity distance $d_{\rm L}$.

Figure 13 plots the de-reddened and k-corrected $M_{g^*} - M_{r^*}$ color against spectroscopic redshift for our two samples. The E/S0 ridgeline — the locus of Ellipticals and S0 galaxies at $M_{g^*} - M_{r^*} \approx$

0.8 — is nearly flat for the redshift range plotted, indicating that the k-corrections did a good job. The slight positive slope of the ridgeline between $z = 0$ and $z = 0.3$ may be the result of a slight color evolution in early-type galaxies over this redshift range.

Figures 14 and 15 display the Color-Magnitude and the Color-Color Diagrams for the two samples, respectively. Visually, it is hard to distinguish much difference between the SDSSCG and field galaxy samples in these plots, with the possible exception that the SDSSCG galaxies appear on average slightly redder than the field galaxies in $M_{u^*} - M_{g^*}$ and in $M_{g^*} - M_{r^*}$.

If, however, we look at the statistics of the absolute magnitude and rest-frame color distributions, differences between the two samples become more apparent. If we look at the means and medians of these distributions for the two samples (Table 4), it is clear that the SDSSCGs are on average redder than the field galaxies in $M_{u^*} - M_{g^*}$ and in $M_{g^*} - M_{r^*}$ at about the 2σ level. Furthermore, there is some evidence — at about the 1σ level — that SDSSCGs are on average less luminous than field galaxies (in the r^*-band).

We have also run two sets of KS tests (Press et al. 1992) for these two samples: (1) a set of one-dimensional KS tests on the distributions of z, M_{r^*}, $M_{u^*} - M_{g^*}$, $M_{g^*} - M_{r^*}$, $M_{r^*} - M_{i^*}$, and $M_{i^*} - M_{z^*}$ (Table 5); and (2) a set of two-dimensional KS tests on the plots shown in Figures 13 – 15 (Table 6).

These two sets of KS tests provide strong evidence that the rest-frame colors of CG galaxies do indeed differ from those of field galaxies — at least for $M_{u^*} - M_{g^*}$, $M_{g^*} - M_{r^*}$, and even $M_{r^*} - M_{i^*}$. The distribution of $M_{i^*} - M_{z^*}$ rest-frame colors, however, does not appear to differ significantly between the two galaxy samples. This is not surprising. The intrinsic rest-frame $M_{i^*} - M_{z^*}$ color of an Elliptical is only about 0.25 mag redder than that of an Irregular; in comparison, the $M_{u^*} - M_{g^*}$ color of an Elliptical is about 1.3 mag redder than that of an Irregular (Fukugita et al. 1995). Thus, the $M_{i^*} - M_{z^*}$ colors are not a very sensitive measure of galaxy morphology.

From the evidence of their $M_{u^*} - M_{g^*}$, $M_{g^*} - M_{r^*}$, and $M_{r^*} - M_{i^*}$ rest-frame colors, we conclude that SDSSCGs contain a relatively higher fraction of Elliptical galaxies than does the field.

Why does the relative fraction of Elliptical galaxies in SDSS CGs appear to be larger than in the field? A likely culprit is the cumulative effect of interactions and mergers over the course of a typical CG lifetime. N-body simulations like those pioneered by Toomre (1977) indicate that the end-product of merging Spirals can be an Elliptical galaxy.

There is evidence for interactions and/or mergers in SDSS CGs. While culling the original set of 232 candidate SDSS CGs to the final set of 175 (§ 3), the member galaxies were visually inspected for tidal tails, bridges, and obvious other signs of interaction activity. Those SDSS CGs showing evidence of interactions and/or mergers are indicated in the "Comments" column (Column 12) of Table 1. Evidence of some sort of interaction or tidal tail is seen in 55 SDSS CGs (31% of the final catalog of 175 SDSS CGs); full-blown merger events appear to be occurring in 26 SDSS CGs (14%). A luminous halo enveloping the all or part of the group — perhaps the remnant of a completely disrupted galaxy — appears in 4 of the SDSS CGs (2%).

Zepf (1993) estimated that roughly 7% of the galaxies in HCGs are in the process of merging. His conclusion was based on roughly consistent frequencies of (a) optical signatures of merging, (b) warm far-infrared colors, and (c) sinusoidal rotation curves. Our initial results, described above, indicate comparable or even greater levels of merger activity in the SDSS CG sample.

7. Conclusions

We have presented a new catalog of CGs, one extracted via an objective algorithm from 153 sq deg of Runs 752 and 756 in the SDSS EDR (Stoughton et al. 2002). The algorithm, using a modified form of Hickson's (1982) original criteria, detected 175 CGs down to a limiting galaxy magnitude of $r^* = 21$. We have estimated that the median redshift of this current version of the SDSS CG catalog is $z_{\rm med} \approx 0.13$, substantially deeper than previous CG catalogs. This catalog will be useful for conducting studies of the general characteristics of CGs, their environments, and their component galaxies.

Our initial results show that SDSS CGs are, on average, about a factor of 40 denser than their local surroundings; that their general physical properties are similar to those of other, less deep CG catalogs; that the fraction of early-type galaxies is higher in SDSS CGs than in the field; and that there is strong visual evidence of interactions and mergers within a significant fraction of SDSS CGs.

Our future goals are three-fold: further analyses of the properties of the current version of the SDSS CG catalog with its 175 CGs, the enlargement of the sample of SDSS CGs as more SDSS data become available, and improvement of CG selection techniques. Clearly, the next step is to apply our algorithm to the current SDSS Data Release. At a detection rate of slightly better than 1 CG per square degree, we expect that the final SDSS CG catalog, based upon the a completed SDSS covering up to one-quarter of the sky, will contain on the order of 5,000 – 10,000 CGs.

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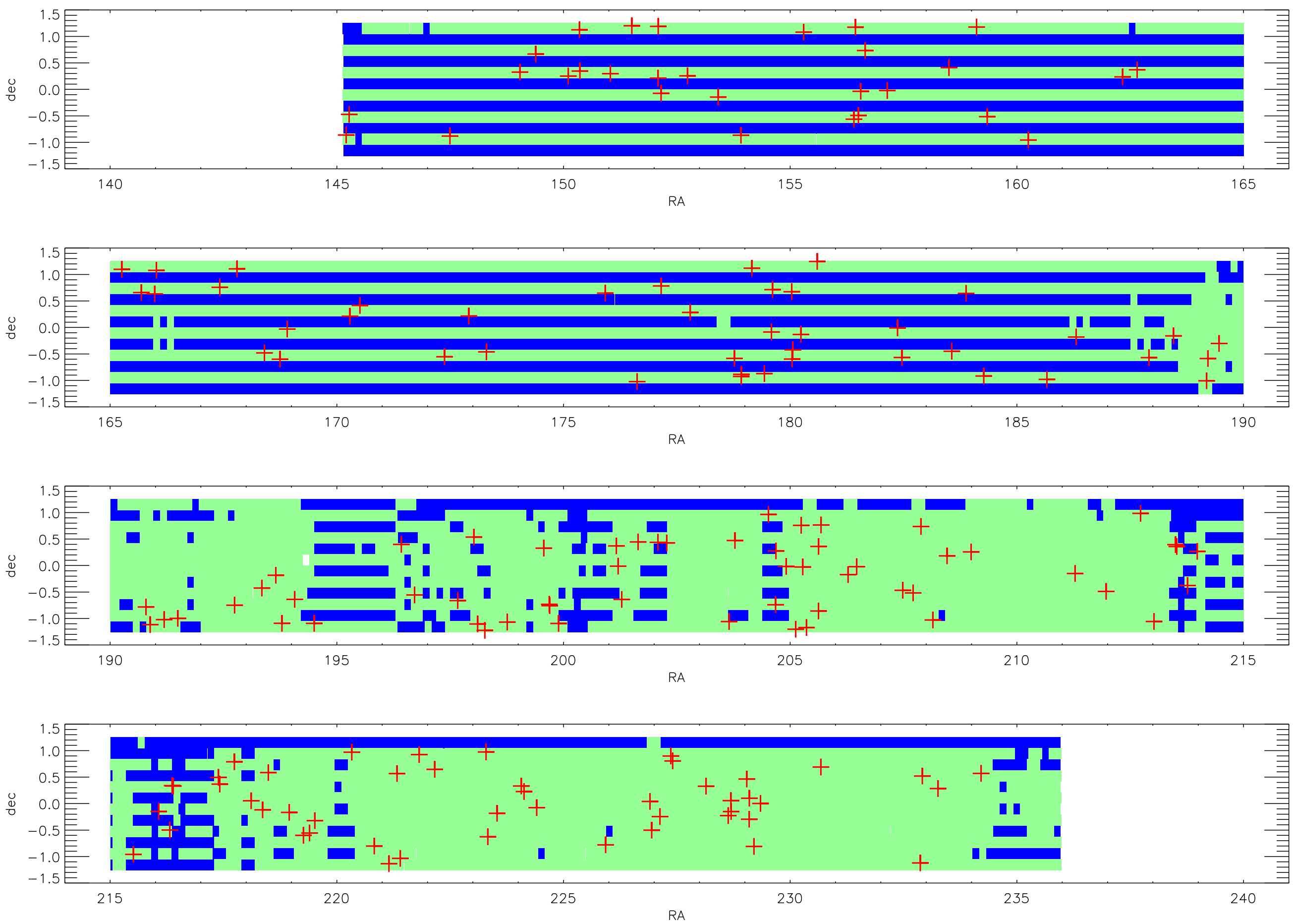

Fig. 1.— The 230 sq deg area on the sky used for the present study, from the Scranton et al. (2002) catalog of Runs 752 and 756. *Green (light) blocks* are individual fields for which the seeing is ≤ 1.6 arcsec (153 sq deg total); *blue (dark) blocks* are fields for which the seeing is > 1.6 arcsec. Galaxies in these fields were used to test isolation but compact groups with member galaxies in these fields have been excluded from our catalog. *Red crosses* denote the locations of the 175 CGs extracted from this area.

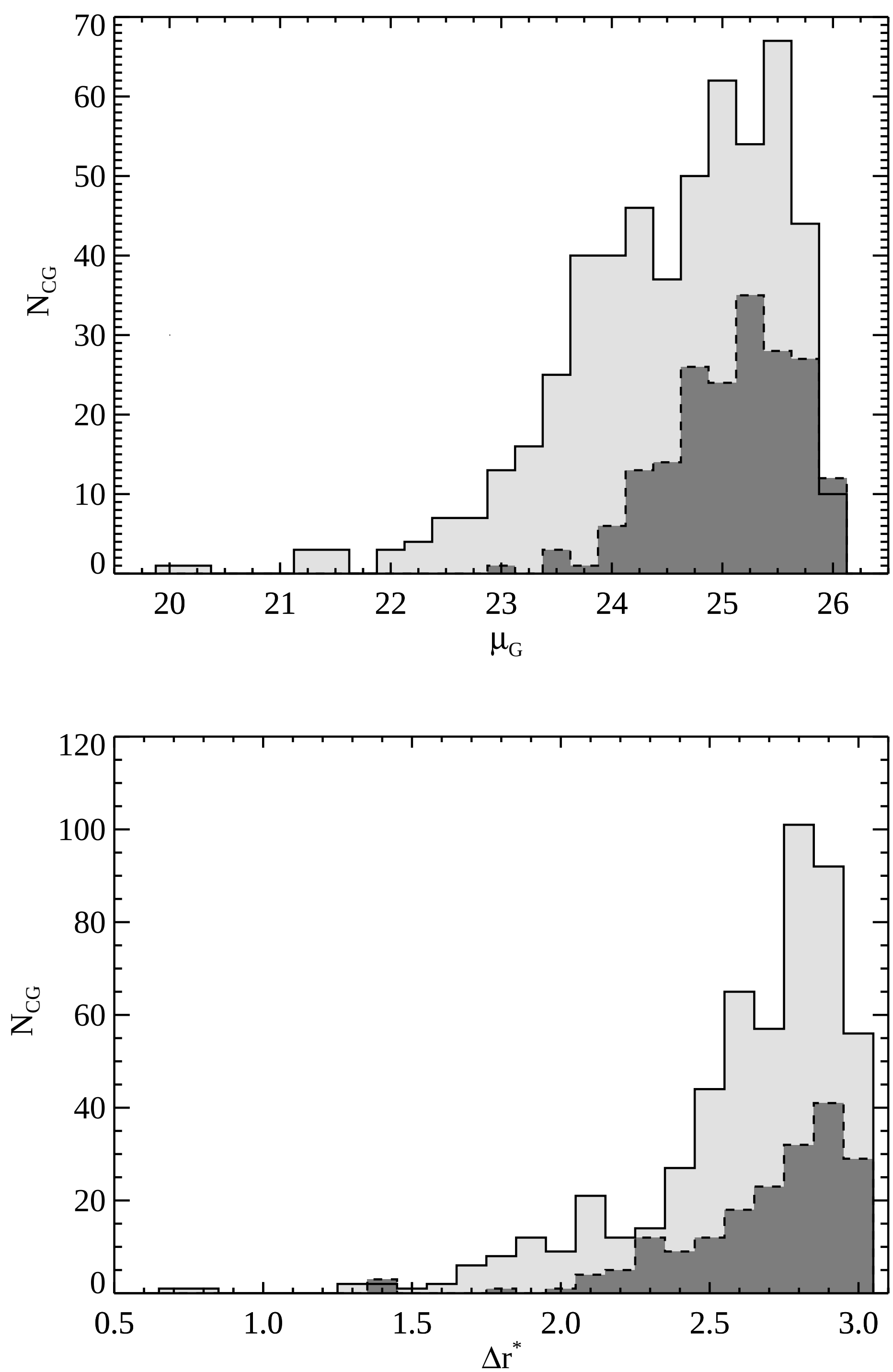

Fig. 2.— Number of compact groups found in the real (light/solid line) and randomized (dark/dashed line) galaxy catalogs. (a) Histogram of the surface brightness. (b) Histogram of the difference between the dimmest and the bright group members, Δr^*.

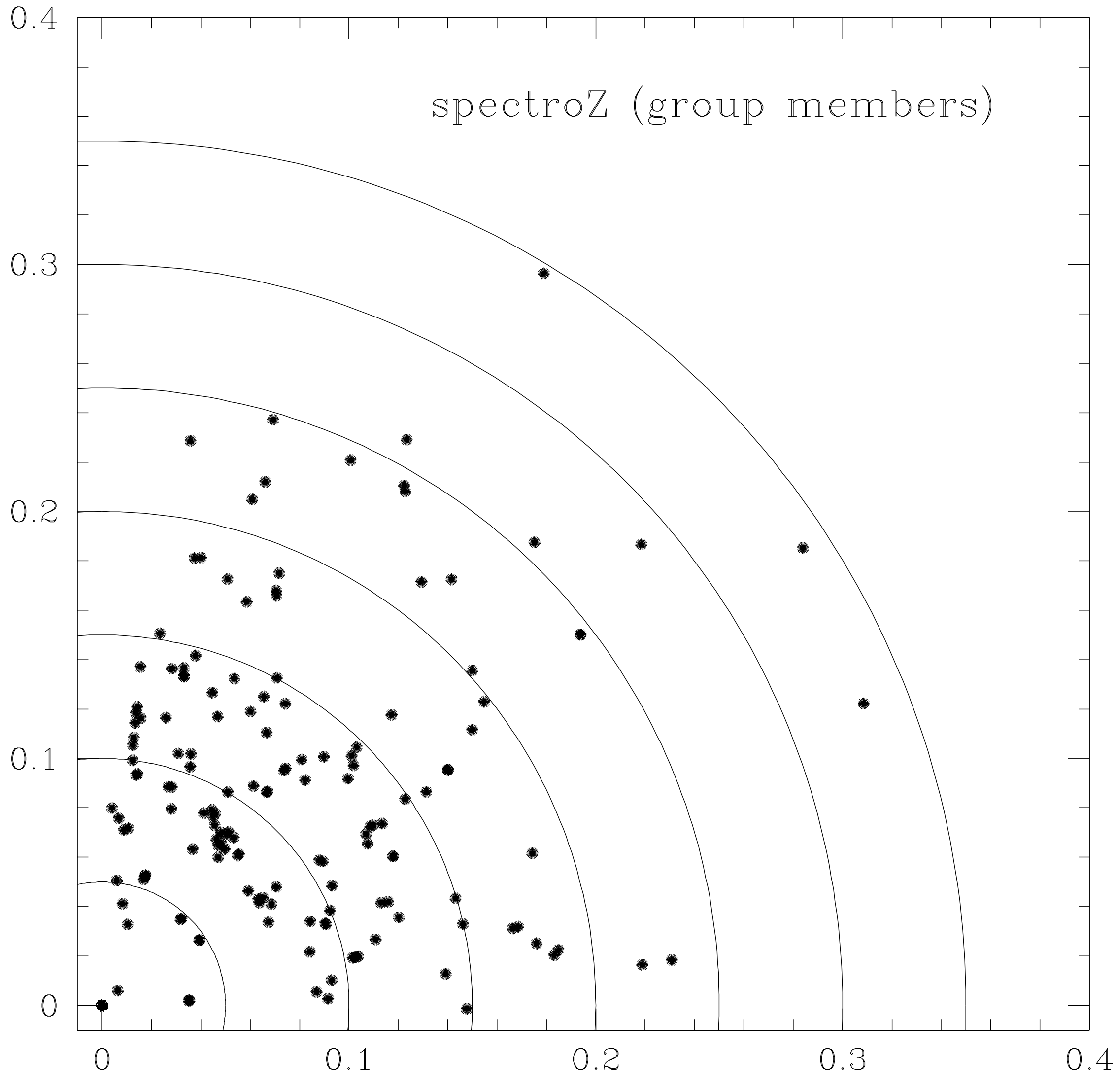

Fig. 3.— The space distribution of individual 158 CG galaxies with spectroscopic redshift (redshift/RA wedge plot).

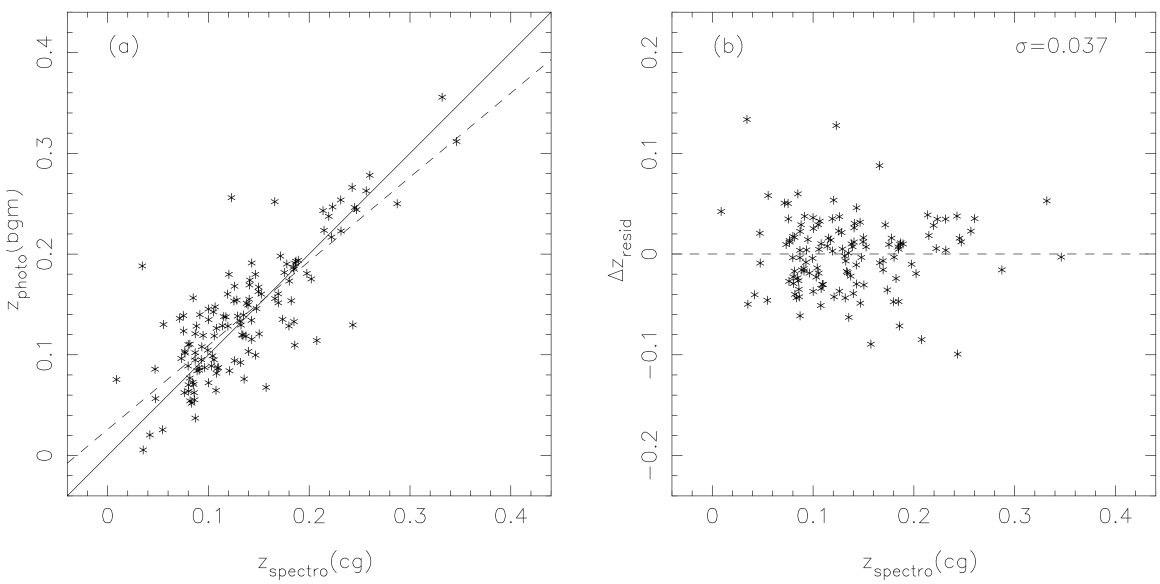

Fig. 4.— (a) The photometric redshift of the brightest group member, $z_{\rm photo}^{\rm bgm}$, vs. the spectroscopic redshift of the group, $z_{\rm spectro}^{\rm cg}$, for the set of 131 SDSS CGs which contain at least one group member with a spectroscopically determined redshift. The solid line depicts the relation $z_{\rm photo}^{\rm bgm} = z_{\rm spectro}^{\rm cg}$; the dashed line indicates the unweighted least squares fit, $z_{\rm photo}^{\rm bgm} = 0.026 + 0.834 \times z_{\rm spectro}^{\rm cg}$. (b) The residuals of the least squares fit in (a).

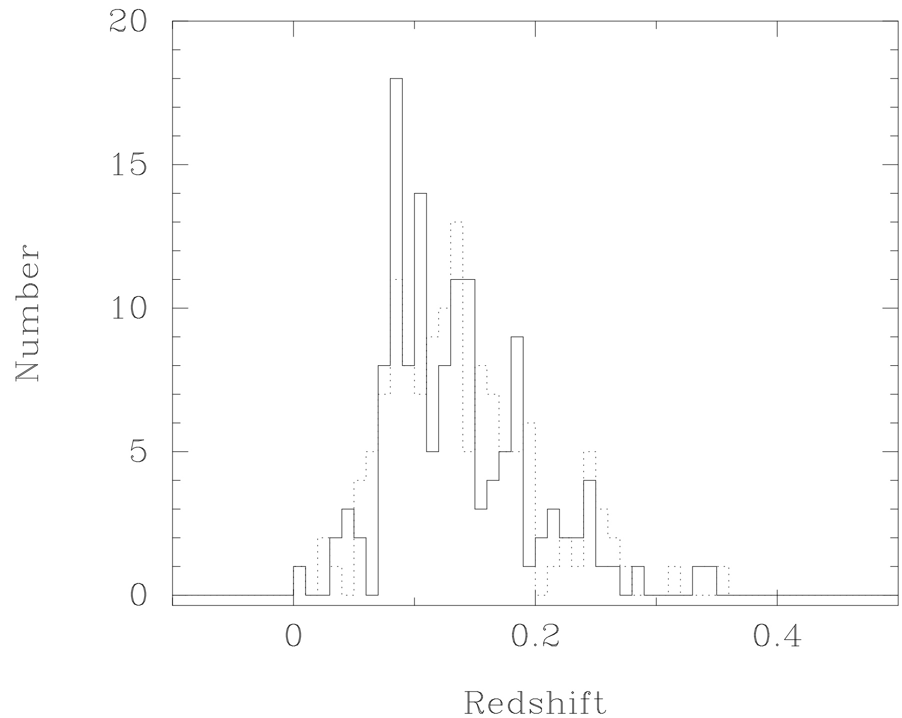

Fig. 5.— The distribution of redshifts for those 131 SDSS CGs with a spectroscopically determined redshift. The solid line is the histogram of spectroscopic redshifts, $z^{\rm cg}_{\rm spectro}$, for this sample of 131 SDSS CGs and has a mean of 0.135 ± 0.005 and a median of 0.126. The dotted line is the histogram of photometric redshifts, $z^{\rm bgm}_{\rm photo}$, for this sample of 131 SDSS CGs and has a mean of 0.138 ± 0.005 and a median of 0.130.

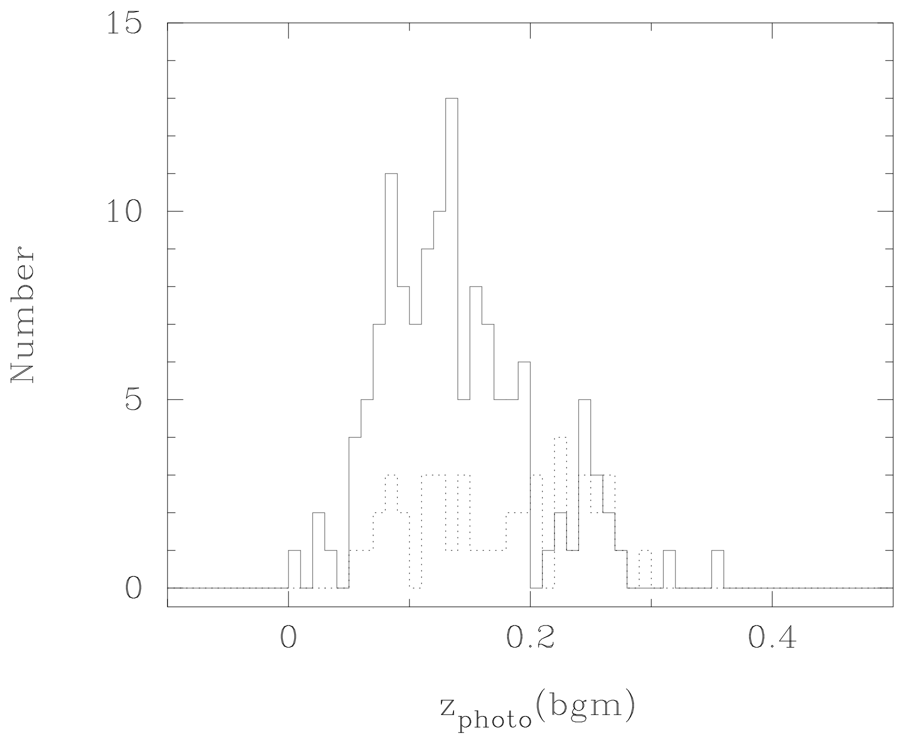

Fig. 6.— The solid line is the histogram of photometric redshifts for the sample of 131 SDSS CGs that have spectroscopically determined redshifts; it is the same as the dotted line plotted in Fig. 5. The dotted line is the histogram of photometric redshifts for the 44 SDSS CGs that do not have a spectroscopically determined redshifts; this distribution has a mean of 0.174 ± 0.010 and a median of 0.178. The full sample of 175 SDSS CGs has a mean photometric redshift of 0.147 ± 0.005 and a median photometric redshift of 0.136.

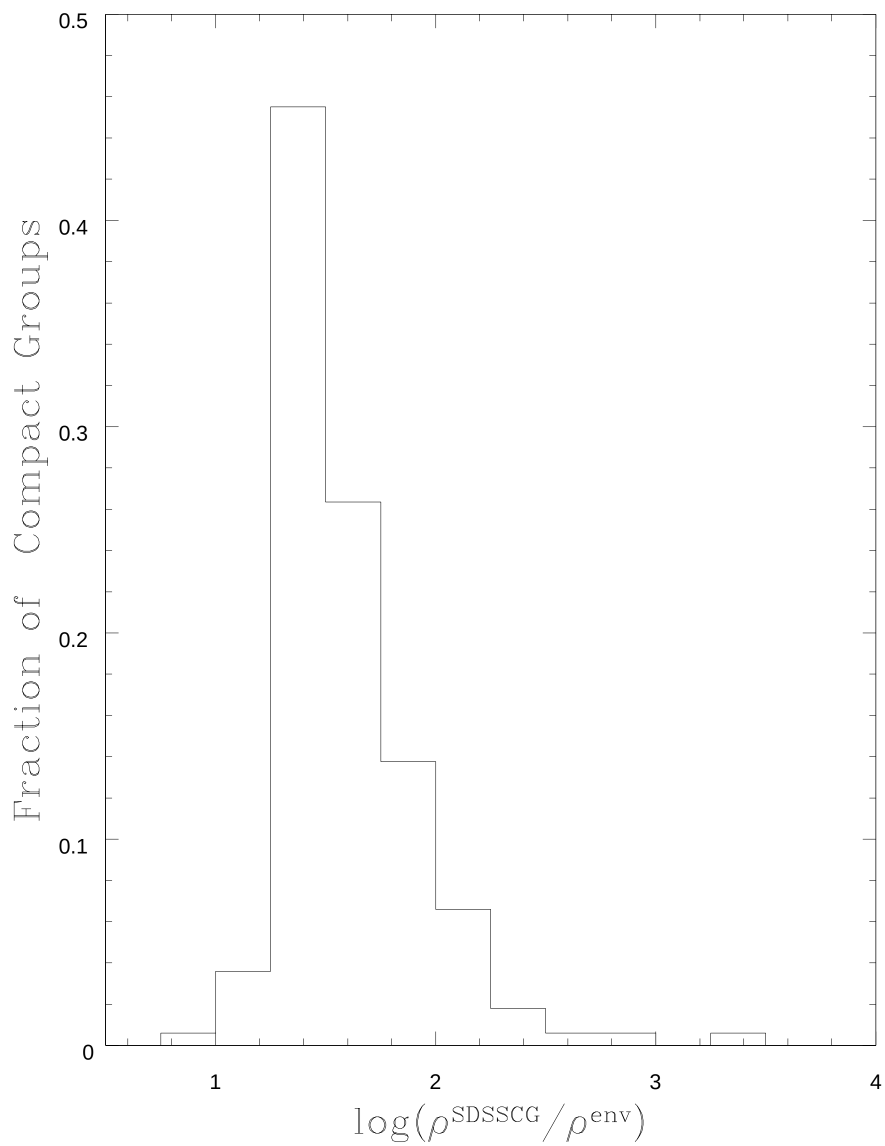

Fig. 7.— The distribution of the surface density ratio $\log(\rho^{\rm SDSSCG}/\rho^{\rm env})$ for SDSS CGs.

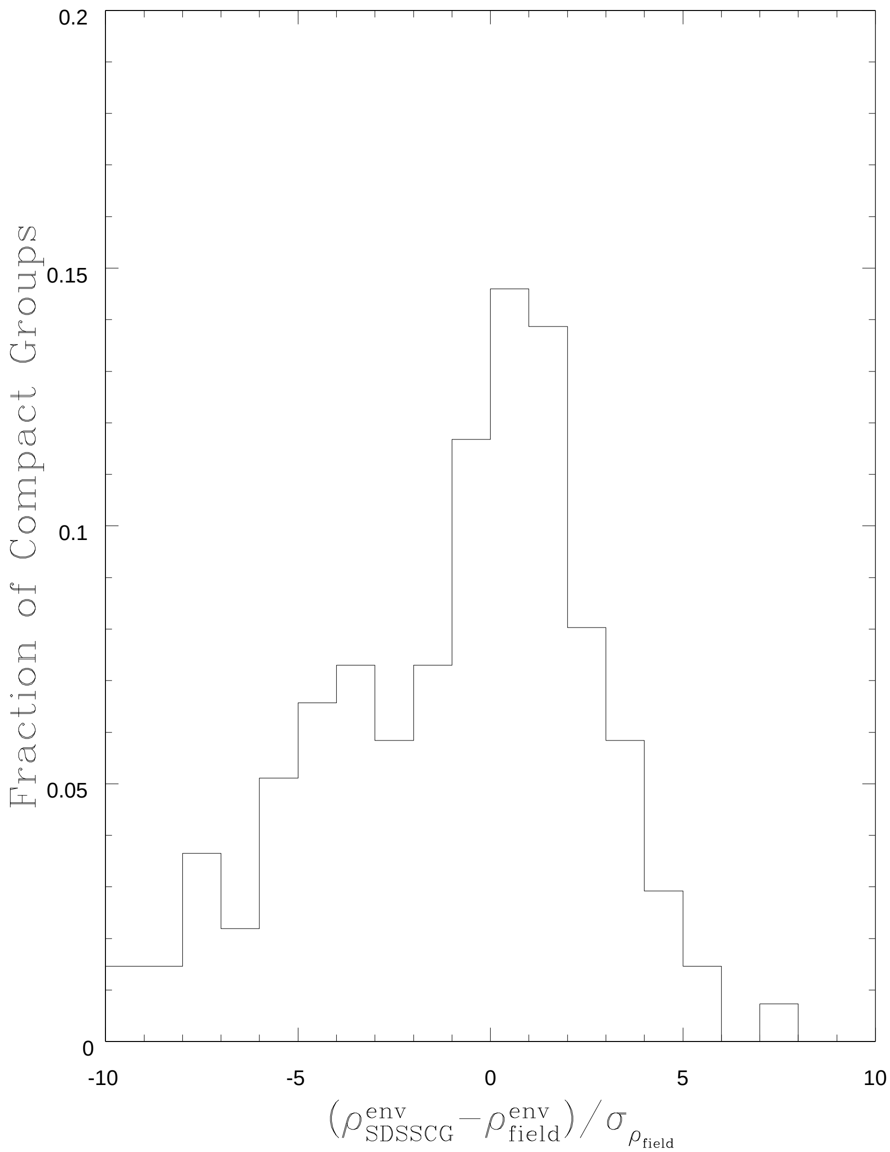

Fig. 8.— The distribution of the local SDSS CGs environments relative to that of the field galaxies.

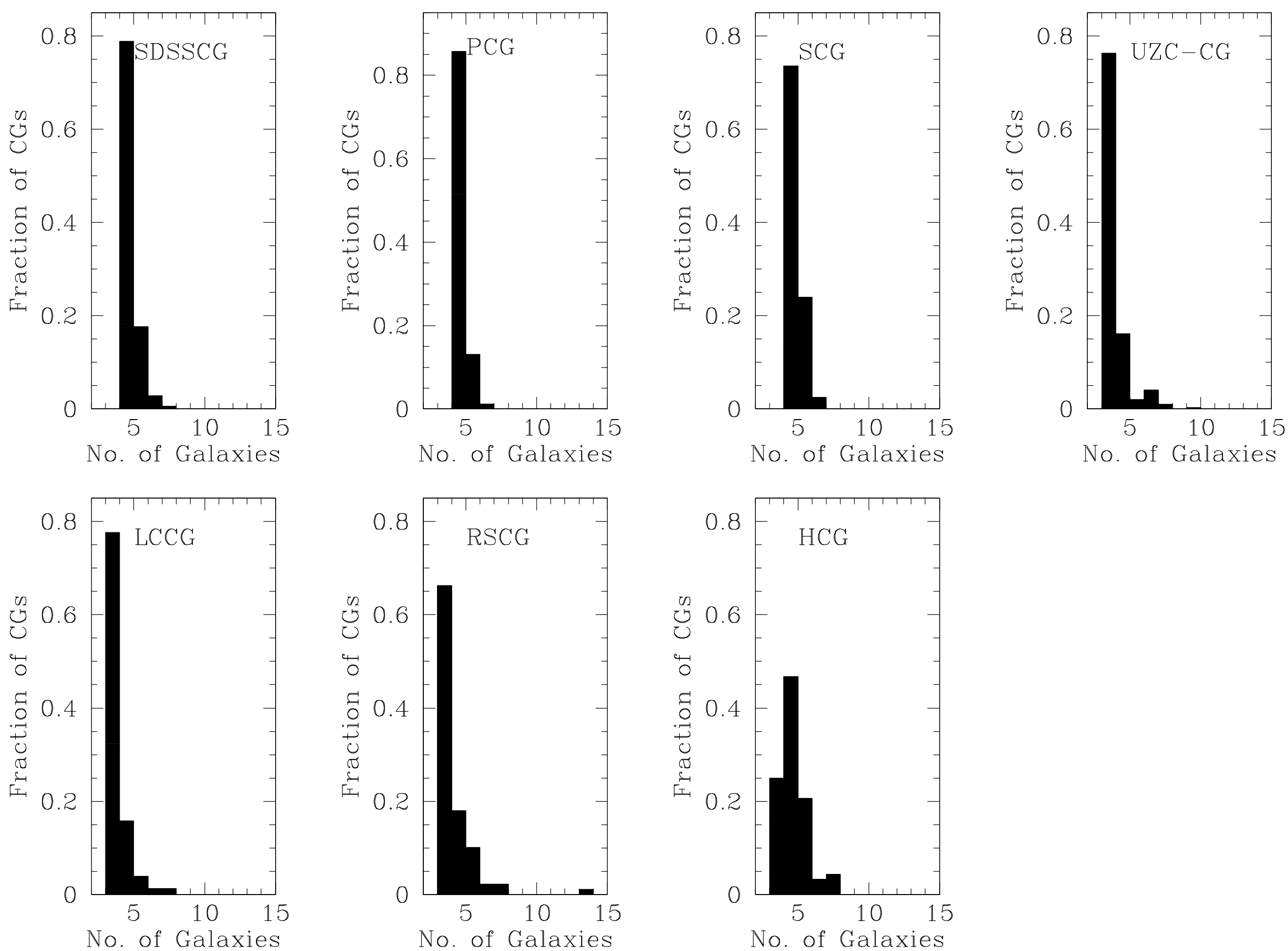

Fig. 9.— The distribution of group memberships, N, for the SDSSCG, PCG, SCG, UZC-CG, LCCG, RSCG, and HCG catalogs.

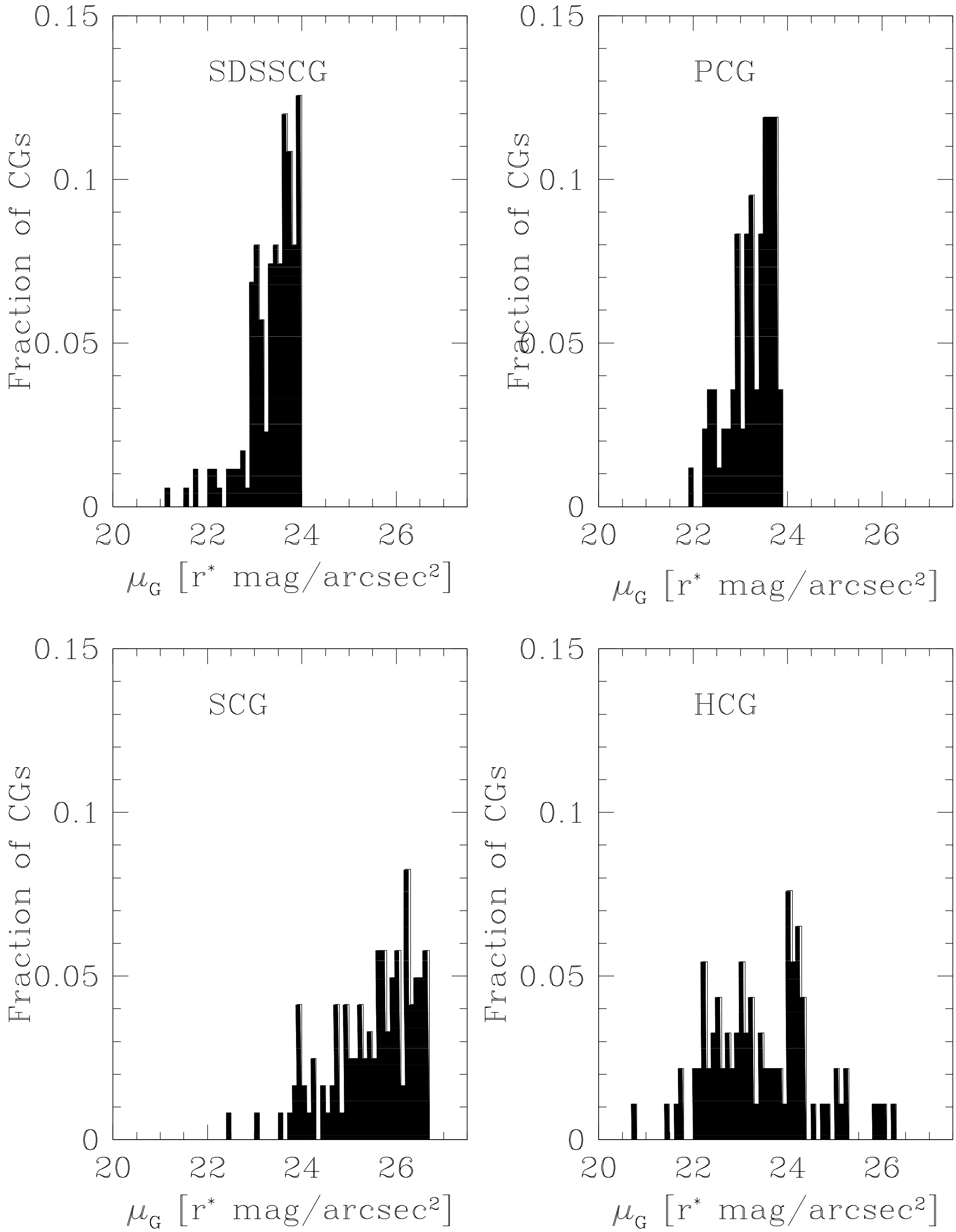

Fig. 10.— The distribution of group surface brightness, μ_G mag arcsec^{-2}, in the SDSS r^*–band for the SDSSCG, PCG, SCG, and HCG catalogs.

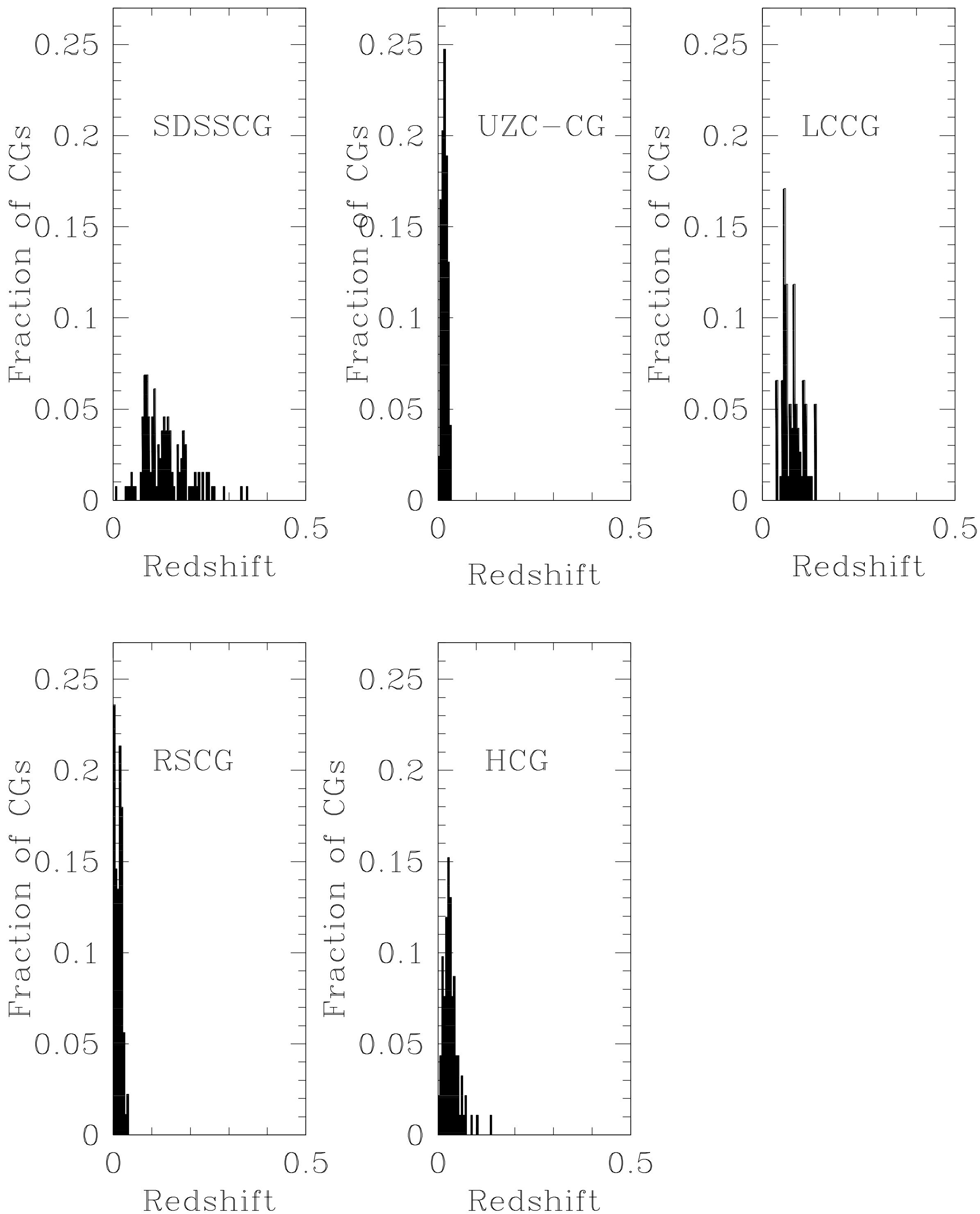

Fig. 11.— The distribution of group redshifts, z, for the SDSSCG, UZC-CG, LCCG, RSCG, and HCG catalogs. Note that the SDSSCG values make use of only those 131 CGs with known spectroscopic redshifts.

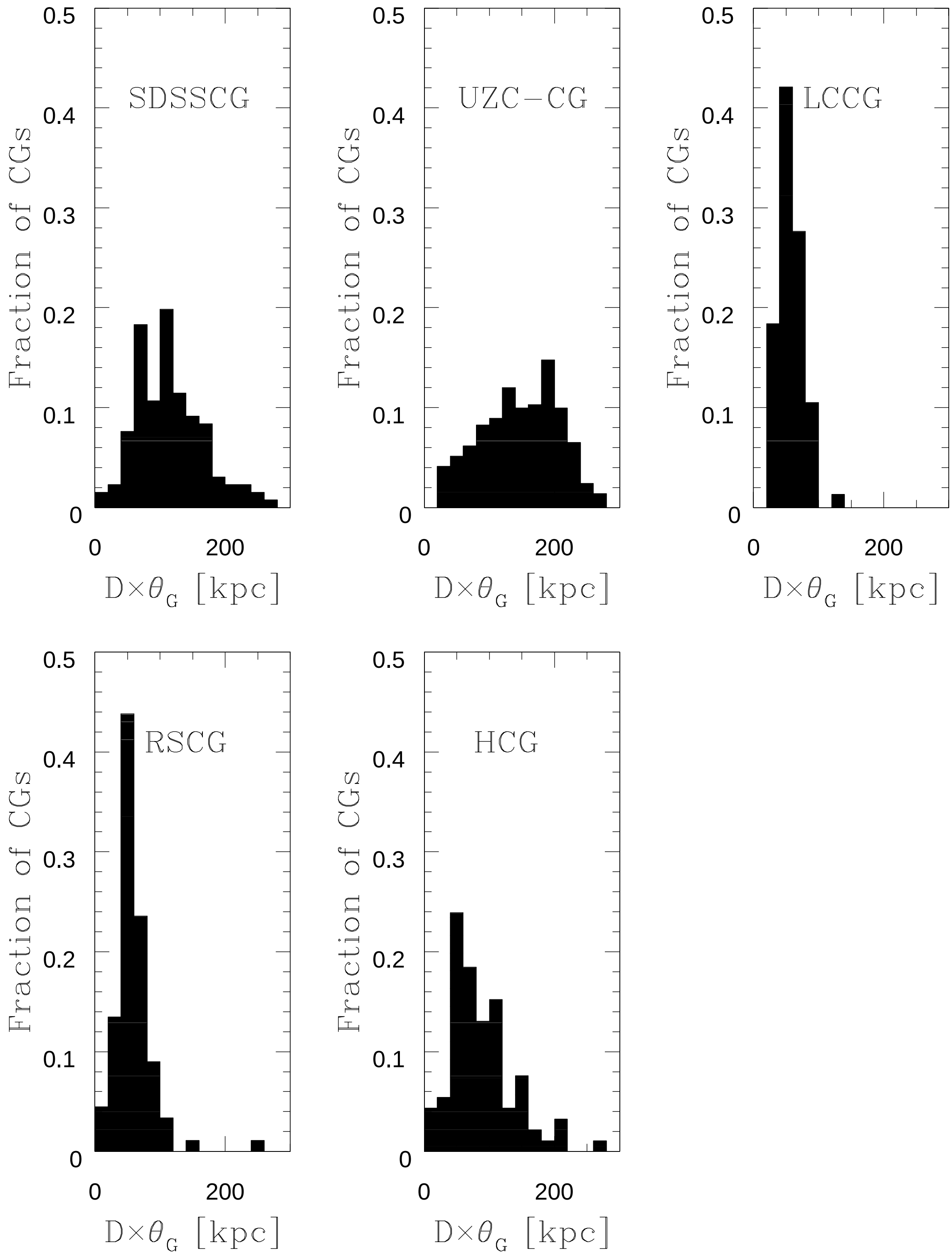

Fig. 12.— The distribution of linear group diameters, $D \times \theta_G$ ($H_0 = 100$ km s^{-1} Mpc^{-1}), for the SDSSCG, UZC-CG, LCCG, RSCG, and HCG catalogs. Note that the SDSSCG values make use of only those 131 CGs with known spectroscopic redshifts.

Fig. 13.— Rest-frame $M_{g^*} - M_{r^*}$ color vs. spectroscopic redshift. *Black dots:* field galaxy sample. Red dots: SDSSCG galaxy sample. (Note: The SDSSCG galaxy sample only contains those 158 SDSSCG galaxies with known spectroscopic redshifts.)

Fig. 14.— r^*-band absolute magnitude $M(r^*) - 5\log(h)$ vs. rest-frame color. *Black dots:* field galaxy sample. Red dots: SDSSCG galaxy sample. (Note: The SDSSCG galaxy sample only contains those 158 SDSSCG galaxies with known spectroscopic redshifts.)

Fig. 15.— (Rest-frame) Color vs. (Rest-frame) Color. *Black dots:* field galaxy sample. Red dots: SDSSCG galaxy sample. (Note: The SDSSCG galaxy sample only contains those 158 SDSSCG galaxies with known spectroscopic redshifts.)

Fig. 16.— Atlas of SDSS Compact Groups is available at `http://home.fnal.gov/~sallam/LeeCG/`

Table 1. The SDSS Compact Group Properties.

CG	$\alpha_{\rm circ}$ [J2000.0]	$\delta_{\rm circ}$ [J2000.0]	θ_G [arcsec]	μ_G [mag arcsec^{-2}]	N	Δr^*	θ_N/θ_G	$z^{\rm bgm}_{\rm photo}$	$z^{\rm cg}_{\rm spectro}$	$N^{\rm cg}_{\rm spectro}$	Comments*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	09:40:48.72	-00:51:36.63	38.9	23.93	4	2.948	3.64	0.1290	···	0	
2	09:41:05.28	-00:28:19.98	24.5	22.91	4	2.073	6.57	0.1459	0.1478	1	M(bc)
3	09:49:58.08	-00:52:57.18	28.7	22.56	4	2.814	8.33	0.1398	0.0916	1	
4	09:56:09.36	00:19:35.67	18.1	22.08	4	2.529	15.46	0.0056	0.0353	2	M(ab)
5	09:57:32.64	00:40:03.81	14.3	21.77	4	0.876	4.39	0.0372	0.0870	1	M(abc)
6	10:00:24.96	00:15:00.61	20.2	22.94	5	2.987	3.49	0.2374	0.2195	1	I(ac)
7	10:01:25.20	01:07:32.08	26.1	23.15	4	2.825	3.92	0.0792	···	0	
8	10:01:26.88	00:20:43.57	26.2	23.44	5	2.295	4.23	0.2228	0.2316	1	
9	10:04:07.44	00:18:01.97	36.7	23.37	4	2.982	4.72	0.1034	0.1398	1	+1
10	10:06:01.20	01:11:59.85	31.1	23.61	4	2.942	3.91	0.1461	···	0	
11	10:08:20.16	00:12:54.03	19.5	22.27	4	2.839	8.02	0.1080	0.0935	1	
12	10:08:21.60	01:11:13.66	27.7	23.59	4	2.248	3.21	0.2246	···	0	M(ac)
13	10:08:36.96	-00:04:27.48	20.4	22.99	4	2.826	5.58	0.1868	0.1844	1	I(bd)
14	10:10:56.64	00:15:10.51	24.5	23.60	4	2.873	3.32	0.1908	0.1862	1	
15	10:13:38.88	-00:08:44.28	17.8	22.93	4	2.098	4.45	0.1345	···	0	
16	10:15:39.60	-00:51:55.23	23.9	23.85	5	2.528	3.34	0.1901	0.1778	1	
17	10:21:11.52	01:05:00.34	36.9	23.59	6	2.621	4.74	0.1868	···	0	I(ab)
18	10:25:37.68	-00:33:42.08	23.6	23.24	5	2.998	5.88	0.1605	0.1693	1	
19	10:25:45.36	01:10:37.74	27.1	23.35	4	2.917	3.33	0.1192	···	0	I(ab)
20	10:26:01.68	-00:29:28.72	26.4	23.74	5	2.355	3.38	0.1980	0.1715	1	
21	10:26:13.44	-00:02:16.90	33.6	23.51	4	2.075	3.02	0.0990	0.1041	2	I(ac)
22	10:26:36.96	00:43:50.47	39.1	23.70	4	2.797	3.14	0.0951	0.1056	1	+2
23	10:28:34.08	-00:01:12.64	20.9	23.62	4	2.921	6.12	0.2427	···	0	
24	10:34:00.24	00:24:32.59	22.0	23.15	4	2.008	3.80	0.1672	0.1499	1	+2
25	10:36:26.88	01:10:36.08	20.6	23.37	4	2.505	4.83	0.0856	···	0	
26	10:37:23.28	-00:30:55.94	23.5	23.35	4	2.786	3.95	0.1288	0.1140	1	
27	10:41:00.00	-00:57:20.77	58.1	23.92	5	2.468	3.24	0.1021	0.0869	1	+1
28	10:49:19.92	00:14:10.81	30.4	23.22	4	0.806	3.22	0.1534	0.1254	1	I(ab) I(cd)
29	10:50:36.24	00:22:04.72	28.3	23.72	6	2.920	3.23	0.1628	0.1496	1	
30	11:01:02.16	01:05:52.47	32.7	23.60	4	2.524	4.80	0.1330	0.1849	1	
31	11:02:44.40	00:39:28.36	30.3	22.75	4	2.126	3.36	0.0874	0.1099	2	
32	11:03:55.92	00:38:05.88	35.3	23.58	4	2.083	6.84	0.0874	0.0964	1	I(ac)
33	11:04:05.28	01:04:42.99	19.6	23.01	4	2.712	3.05	0.1798	0.1204	1	I(ab)
34	11:09:39.84	00:45:34.68	25.6	23.90	6	2.970	3.45	0.3556	0.3319	1	I(bd)
35	11:11:12.24	01:06:26.17	38.7	23.48	4	2.685	4.01	0.0849	0.0909	1	
36	11:13:36.48	-00:28:52.79	26.0	23.00	5	2.906	6.82	0.1454	0.1000	1	
37	11:14:58.56	-00:36:08.91	38.3	23.77	4	2.816	3.47	0.0850	···	0	+1
38	11:15:37.20	-00:01:49.97	18.9	22.64	4	1.799	4.36	0.0773	···	0	
39	11:21:08.16	00:12:39.30	43.5	23.57	4	2.779	3.75	0.0950	···	0	
40	11:22:02.64	00:24:58.20	17.2	23.34	4	2.879	3.79	0.1730	···	0	I(ad)?
41	11:29:30.72	-00:33:12.02	20.0	23.67	4	2.479	4.21	0.1236	0.0754	1	
42	11:31:38.40	00:12:54.97	38.2	22.91	6	2.412	3.50	0.1295	0.1324	2	
43	11:33:11.52	-00:27:25.36	56.7	23.86	5	2.079	7.45	0.1426	0.1050	1	T(a)
44	11:43:40.80	00:38:56.74	21.1	24.00	4	2.511	3.10	0.2926	···	0	
45	11:46:29.28	-01:01:25.50	26.0	23.68	4	2.992	4.16	0.0890	0.0799	1	
46	11:48:37.20	00:47:07.20	36.8	23.20	5	2.693	4.21	0.0942	0.1260	1	I(ac) I(bd)
47	11:51:11.28	00:16:59.04	17.7	23.08	4	2.422	3.36	0.1695	···	0	I(ab)
48	11:55:04.80	-00:35:00.77	44.4	23.00	5	1.852	3.30	0.1335	0.1313	2	+1
49	11:55:40.56	-00:55:27.05	22.5	22.73	4	2.073	5.96	0.1476	0.1067	1	I(ab)
50	11:55:41.52	-00:53:08.71	17.3	22.47	4	1.888	7.54	0.1142	0.2076	2	I(bd)
51	11:56:36.96	01:07:15.52	46.9	23.77	4	2.934	4.95	0.0677	0.1573	1	
52	11:57:44.16	-00:52:24.64	37.6	23.46	4	2.944	3.49	0.0924	0.1318	1	
53	11:58:20.40	-00:05:14.10	36.3	23.67	4	2.007	3.59	0.1188	0.1058	1	I(ab)
54	11:58:26.16	00:42:41.11	63.8	23.08	4	1.953	3.37	0.0566	0.0475	3	M(cd) isolated?
55	12:00:09.12	00:40:25.66	34.8	23.09	4	2.865	4.27	0.0707	0.0854	1	M(cd)
56	12:00:10.08	-00:35:55.19	40.4	23.66	4	2.980	3.88	0.1516	0.1694	3	
57	12:00:12.96	-00:25:33.88	34.8	23.41	5	2.994	3.03	0.1032	0.0766	1	M(cd) +1
58	12:00:56.88	-00:07:57.73	21.6	23.12	4	2.660	3.45	0.2017	···	0	
59	12:02:22.56	01:14:44.91	24.4	23.61	5	2.706	3.21	0.2743	···	0	I(ab)
60	12:09:28.32	-00:00:27.76	16.6	23.06	4	2.688	3.70	0.2364	···	0	
61	12:09:51.60	-00:34:02.99	25.8	22.91	5	2.754	3.60	0.1929	0.1869	1	I(bd) isolated?
62	12:14:15.60	-00:26:59.34	10.2	21.73	4	2.252	4.85	0.2462	0.2452	2	h(abd)
63	12:15:31.20	00:38:32.46	25.2	23.90	4	2.834	3.05	0.1389	0.0752	1	I(ab)
64	12:17:04.80	-00:54:53.76	28.2	23.93	4	2.700	3.65	0.1807	0.1977	1	+1
65	12:22:39.60	-00:58:50.07	48.7	23.89	4	2.917	3.01	0.1816	0.1753	1	M(ab)

Table 1—Continued

CG	$\alpha_{\rm circ}$ [J2000.0]	$\delta_{\rm circ}$ [J2000.0]	θ_G [arcsec]	μ_G [mag arcsec^{-2}]	N	Δr^*	θ_N/θ_G	$z_{\rm photo}^{\rm bgm}$	$z_{\rm spectro}^{\rm cg}$	$N_{\rm spectro}^{\rm cg}$	Comments*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
66	12:25:13.92	-00:10:50.93	21.5	23.44	4	2.812	4.13	0.2499	0.2873	1	I(ab)
67	12:31:39.84	-00:34:05.51	26.7	23.02	4	2.970	5.51	0.1752	0.2021	1	M(bc)
68	12:33:49.44	-00:09:32.34	34.0	23.14	5	2.943	4.65	0.0761	0.1354	1	isolated?
69	12:36:44.16	-01:00:23.00	21.4	23.57	4	2.182	3.72	0.2475	· · ·	0	I(abc)
70	12:36:51.36	-00:35:08.64	33.3	23.61	4	2.745	4.16	0.0755	0.0088	1	I(bc)
71	12:37:50.40	-00:18:01.14	28.9	23.72	4	2.507	4.36	0.1693	0.1407	1	
72	12:43:09.36	-00:46:50.43	22.1	22.74	4	2.688	3.49	0.1154	0.1430	1	isolated?
73	12:43:31.68	-01:06:57.67	22.4	23.08	4	2.109	4.25	0.1558	0.1661	1	
74	12:44:46.08	-01:01:27.80	58.4	23.80	7	2.974	3.89	0.0997	0.1468	1	M(ab) I(fg)
75	12:45:58.32	-00:59:52.34	19.2	23.51	4	2.462	3.17	0.2029	· · ·	0	
76	12:50:58.32	-00:44:52.60	22.8	23.31	5	1.886	3.47	0.2627	0.2566	1	M(ab)
77	12:53:23.28	-00:25:27.77	40.5	22.17	5	2.088	14.17	0.0858	0.0471	3	M(cde) T(ab)
78	12:54:36.24	-00:10:43.53	62.0	23.62	4	2.640	3.78	0.0543	0.0819	3	I(bc)
79	12:55:08.64	-01:05:22.41	29.1	23.47	5	2.708	4.29	0.2559	0.1229	1	M(abc)
80	12:56:16.80	-00:38:22.74	16.9	23.00	4	2.755	3.67	0.1395	0.1349	1	
81	12:58:00.00	-01:05:43.65	35.6	23.95	5	2.570	4.75	0.2080	· · ·	0	I(bc)
82	13:05:41.52	00:23:52.26	25.5	23.51	4	2.362	3.42	0.2467	0.2232	1	I(ac)
83	13:06:51.12	-00:33:27.53	33.3	23.86	4	2.864	4.73	0.1543	0.1283	1	
84	13:10:39.84	-00:39:55.92	81.5	23.73	5	2.915	3.05	0.0639	0.0805	3	I(bc)
85	13:12:04.80	00:32:18.25	75.4	23.64	4	2.358	5.29	0.0842	0.1208	2	isolated?
86	13:12:24.96	-01:06:12.92	43.9	23.52	4	2.008	4.01	0.0867	0.1091	3	+2
87	13:13:02.40	-01:13:27.69	52.2	23.77	4	2.847	4.09	0.1113	· · ·	0	I(ab)
88	13:15:02.40	-01:04:05.84	9.9	21.16	4	1.841	5.03	0.2235	0.2148	1	h?
89	13:18:15.36	00:19:37.88	23.5	22.18	4	2.373	6.87	0.0770	0.0816	1	I(ab)
90	13:18:45.36	-00:43:46.66	42.1	23.58	4	2.519	3.12	0.0625	0.0859	1	M(ac)
91	13:18:47.04	-00:45:31.37	20.6	22.92	4	2.787	4.57	0.1210	0.0870	1	I(ab)
92	13:19:32.88	-01:05:45.88	65.8	23.92	4	2.767	3.06	0.0702	0.0802	1	I(cd)
93	13:24:39.12	00:22:03.84	32.7	23.18	4	2.990	3.41	0.0818	0.1080	1	
94	13:24:49.44	-00:00:42.95	31.9	23.30	4	2.848	4.80	0.1106	0.0816	1	
95	13:25:08.40	-00:38:30.71	26.0	23.32	4	2.680	3.04	0.1565	0.0849	1	M(ac)
96	13:26:34.56	00:26:45.90	16.1	23.37	4	2.848	5.89	0.2618	· · ·	0	
97	13:28:19.68	00:26:15.27	18.7	23.07	4	2.862	3.17	0.2268	· · ·	0	
98	13:29:06.00	00:25:37.02	19.0	23.14	4	2.464	3.36	0.0871	· · ·	0	I(ab)
99	13:34:36.48	-01:03:25.84	34.5	23.82	4	2.939	3.67	0.1019	0.0768	1	
100	13:35:06.24	00:28:21.20	61.8	23.81	4	2.541	5.62	0.0948	0.0869	1	I(ab)
101	13:38:04.56	00:57:55.94	26.1	23.68	4	2.632	3.57	0.1911	0.1430	1	I(bd)
102	13:38:42.48	-00:44:33.88	25.4	23.34	4	2.697	3.70	0.3117	0.3462	1	I(bc)
103	13:38:44.88	00:16:33.84	29.6	23.99	4	2.705	3.78	0.1385	0.1290	1	I(bd)
104	13:39:38.88	-00:01:02.18	22.2	23.94	4	2.703	3.36	0.2440	· · ·	0	
105	13:40:28.80	-01:12:07.05	40.5	23.78	4	2.570	3.80	0.1475	· · ·	0	I(ab)
106	13:40:58.80	00:45:31.62	28.2	23.73	4	2.659	3.02	0.2520	0.1659	2	M(ab)
107	13:41:06.48	-00:01:35.14	26.6	23.82	4	2.200	3.71	0.1349	0.1003	1	T(b)
108	13:41:27.36	-01:10:21.36	80.1	23.94	4	2.601	3.23	0.0842	0.0888	1	
109	13:42:30.24	-00:51:29.53	22.3	23.66	5	2.786	3.10	0.1970	· · ·	0	
110	13:42:30.48	00:21:19.32	52.3	23.97	4	2.788	3.73	0.1297	0.2434	1	
111	13:42:43.92	00:45:41.76	58.8	23.89	4	2.999	3.54	0.0964	0.0732	1	M(ad) +1
112	13:45:06.96	-00:10:17.38	20.1	23.66	4	2.769	3.61	0.1567	· · ·	0	
113	13:45:51.84	-00:01:15.80	22.0	23.72	4	2.546	3.79	0.0871	0.0908	1	
114	13:49:55.92	-00:28:08.35	24.4	23.82	4	2.737	3.04	0.2781	0.2602	1	I(bd)
115	13:50:50.88	-00:31:01.96	27.3	23.02	4	2.536	5.57	0.1207	0.1504	1	I(bcd)
116	13:51:32.40	00:44:15.03	24.6	23.47	4	2.250	3.48	0.1285	0.0881	1	
117	13:52:35.04	-01:01:43.96	21.6	23.04	4	2.303	3.44	0.1741	0.1412	1	+1
118	13:53:50.64	00:10:51.64	22.2	23.63	4	2.958	3.32	0.2639	· · ·	0	I(ac)
119	13:55:57.84	00:15:23.06	29.9	23.73	5	2.678	3.21	0.1198	0.1333	1	M(ab)
120	14:05:08.40	-00:08:58.70	9.5	21.58	4	2.941	5.75	0.2661	0.2427	1	h?
121	14:07:52.32	-00:29:17.61	21.5	23.20	4	2.408	3.93	0.2568	· · ·	0	
122	14:10:54.96	00:59:06.15	18.1	23.06	4	2.741	4.28	0.1732	0.1803	1	
123	14:12:06.24	-01:03:27.72	21.8	23.13	4	2.369	5.42	0.1536	0.1822	1	I(ac) +1
124	14:13:59.76	00:23:43.65	24.4	23.42	4	2.385	3.23	0.1938	0.1892	1	
125	14:14:06.72	00:21:29.62	20.5	23.67	4	1.877	3.48	0.1208	· · ·	0	
126	14:15:04.08	-00:22:34.41	30.3	23.69	4	2.331	3.14	0.1342	0.1428	1	
127	14:15:54.24	00:16:04.30	28.8	23.96	4	2.942	3.39	0.1681	0.1260	1	
128	14:22:02.40	-00:57:46.99	60.1	23.68	4	2.875	3.40	0.0890	0.1030	1	I(abc)
129	14:24:16.80	-00:09:00.68	56.7	23.97	4	2.876	3.32	0.1351	0.1736	1	
130	14:25:15.84	-00:29:46.50	24.8	23.74	4	2.767	3.50	0.1263	0.1080	1	

Table 1—Continued

CG	$\alpha_{\rm circ}$	$\delta_{\rm circ}$	θ_G	μ_G	N	Δr^*	θ_N/θ_G	$z_{\rm photo}^{\rm bgm}$	$z_{\rm spectro}^{\rm cg}$	$N_{\rm spectro}^{\rm cg}$	Comments*
	[J2000.0]	[J2000.0]	[arcsec]	[mag arcsec^{-2}]							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
131	14:25:28.56	00:20:31.84	43.2	23.72	4	2.876	3.44	0.1194	0.1343	1	M(ab)
132	14:25:33.60	00:19:38.21	44.1	23.46	4	2.783	4.15	0.0727	0.0845	1	
133	14:29:33.12	00:29:50.85	41.2	23.90	4	2.425	3.36	0.1301	0.0554	1	
134	14:29:39.36	00:22:07.84	73.0	23.06	5	2.893	3.53	0.0256	0.0546	2	
135	14:30:57.84	00:47:24.14	16.6	22.85	4	1.935	6.64	0.1836	· · ·	0	I(bcd)
136	14:32:26.40	00:03:09.68	37.6	23.12	5	2.264	4.76	0.0952	0.0929	1	I(bd)
137	14:33:27.84	-00:07:03.48	21.2	22.63	4	2.564	4.43	0.1882	0.0344	1	M(ab) +1
138	14:33:56.88	00:35:00.09	24.9	23.48	4	2.778	4.07	0.2167	0.2221	1	I(ad)
139	14:35:47.52	-00:10:01.84	33.6	23.86	4	2.893	3.08	0.1046	0.0995	2	
140	14:37:03.36	-00:35:52.82	20.0	23.45	4	1.410	3.15	0.2430	0.2137	1	I(ab)
141	14:37:34.56	-00:33:21.44	38.9	23.39	4	2.957	3.19	0.1286	0.1799	1	
142	14:38:03.84	-00:19:27.60	19.2	23.36	4	2.908	4.60	0.2441	0.2470	1	
143	14:41:18.96	00:58:15.76	23.1	23.54	4	2.530	4.77	0.2569	· · ·	0	
144	14:43:17.76	-00:48:07.05	18.5	22.97	4	2.910	4.70	0.1798	0.1466	1	I(bdc)
145	14:44:35.76	-01:08:08.62	42.6	23.93	6	2.950	3.20	0.1480	· · ·	0	I(df)
146	14:45:19.20	00:34:04.45	26.5	23.99	5	2.591	3.77	0.1960	· · ·	0	
147	14:45:36.00	-01:02:09.06	25.5	23.77	4	2.775	3.51	0.1285	· · ·	0	
148	14:47:15.12	00:55:28.31	39.6	23.80	4	2.792	6.67	0.1186	0.1373	2	
149	14:48:37.44	00:38:54.18	43.7	23.94	4	2.658	5.19	0.1551	0.1405	1	
150	14:53:09.84	00:58:20.72	35.8	22.93	4	2.600	4.33	0.1285	0.1193	1	
151	14:53:19.68	-00:37:31.99	23.2	23.93	4	2.918	3.56	0.1095	0.1857	1	
152	14:54:08.16	-00:11:07.42	23.9	23.58	4	2.420	4.09	0.0679	· · ·	0	
153	14:56:16.08	00:19:54.81	16.2	22.42	5	2.626	4.31	0.1494	0.1393	1	M(ab)
154	14:56:31.44	00:13:35.08	22.1	23.72	4	2.913	3.35	0.1850	0.1849	1	I(ab) T(b)
155	14:57:37.68	-00:04:37.64	22.2	23.42	4	2.274	5.34	0.0205	0.0420	1	+1
156	15:03:43.20	-00:46:40.21	21.7	23.31	4	2.463	5.86	0.2273	· · ·	0	T(a) +1
157	15:07:37.68	00:02:27.85	11.9	22.07	4	2.383	3.05	0.2537	0.2314	1	I(ab)
158	15:07:47.28	-00:30:04.53	18.2	23.15	4	2.322	6.69	0.1603	0.1525	1	I(abc) +1
159	15:08:30.48	-00:14:38.99	24.4	23.01	4	2.463	4.19	0.1193	0.0948	1	I(ad)
160	15:09:27.36	00:53:52.12	19.2	23.61	4	2.833	3.70	0.2623	· · ·	0	I(ab)
161	15:09:37.92	00:48:04.62	75.2	23.94	4	1.909	3.26	0.0521	0.0834	2	M(ac)
162	15:12:34.08	00:19:34.17	35.7	23.90	5	2.905	3.85	0.1376	0.1174	1	M(bc) +1
163	15:14:32.16	-00:13:43.46	19.8	23.46	5	2.574	4.20	0.1106	· · ·	0	M(ab)
164	15:14:45.60	00:03:13.86	26.5	23.71	4	2.737	5.09	0.1362	0.0716	1	I(bd)
165	15:14:47.52	-00:09:08.40	29.6	23.94	4	2.551	3.02	0.0723	0.1001	1	M(ac) +1
166	15:16:10.56	00:27:51.92	62.8	23.84	5	2.457	3.17	0.0647	0.1076	2	
167	15:16:22.56	-00:17:32.89	85.9	23.97	4	2.785	4.76	0.0554	0.0863	2	isolated?
168	15:16:24.00	00:06:03.12	19.9	22.54	4	2.852	3.99	0.1379	0.1152	1	
169	15:16:48.48	-00:48:32.42	25.3	23.43	4	1.933	4.25	0.1603	0.1191	1	
170	15:17:22.56	00:00:14.07	28.8	23.65	5	2.649	5.09	0.1511	0.1380	1	T(d)
171	15:22:42.96	00:41:19.98	32.3	23.81	4	2.159	3.93	0.0624	0.0761	1	I(ab) isolated?
172	15:31:29.04	-01:07:27.87	46.1	23.93	5	2.623	4.73	0.0979	· · ·	0	h(abe)
173	15:31:39.60	00:31:12.59	28.6	23.07	4	1.819	3.03	0.1101	0.0800	1	
174	15:33:00.48	00:16:59.07	72.7	23.70	4	2.978	8.30	0.0592	· · ·	0	+1
175	15:36:50.40	00:34:11.51	20.0	23.22	5	2.973	4.32	0.2269	· · ·	0	M(ad)
Tri1	11:01:13.92	+00:22:43.02	13.3	22.56	4	2.997	6.00	· · ·	· · ·	· · ·	QSO(a)
Tri2	13:10:35.76	-00:14:16.99	28.6	23.85	4	2.783	3.16	· · ·	· · ·	· · ·	QSO(b)

*Endnotes:
+1: a faint background galaxy is visible which could be a member of the group,
+2: two faint background galaxies are visible which could be members of the group,
isolated?: faint background galaxies are visible which could be members of the group,
M(ab): galaxies a and b appear to be merging,
I(ab): galaxies a and b appear to be interacting,
T(a): galaxy a shows a tidal tail,
h(abc): galaxies a, b and c appear to be embedded within a common halo.
QSO(a): galaxy a is classified as a QSO in NED

Table 2. The SDSS Compact Group Members

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1a	09:40:49.77	-00:51:47.07	16.707	0.007	0.108	2.219	0.093	1.134	0.010	0.498	0.008	0.349	0.008	···	···	
1b	09:40:49.80	-00:51:26.92	18.123	0.012	0.108	2.047	0.231	1.129	0.022	0.480	0.015	0.344	0.024	···	···	
1c	09:40:47.40	-00:51:39.69	18.487	0.024	0.107	1.187	0.138	0.633	0.034	0.328	0.032	0.107	0.073	···	···	
1d	09:40:48.99	-00:51:41.70	19.655	0.029	0.108	0.847	0.133	0.537	0.043	0.393	0.041	0.162	0.091	···	···	
2a	09:41:04.64	-00:28:13.50	16.895	0.008	0.158	2.072	0.103	1.155	0.010	0.461	0.008	0.382	0.010	···	···	
2b	09:41:06.09	-00:28:24.50	17.818	0.012	0.158	1.488	0.104	1.009	0.016	0.545	0.013	0.403	0.018	0.1478	···	
2c	09:41:05.90	-00:28:28.81	18.309	0.020	0.157	1.006	0.106	0.650	0.026	0.459	0.025	0.058	0.055	···	···	
2d	09:41:05.39	-00:28:16.93	18.968	0.017	0.158	1.835	0.287	1.096	0.027	0.470	0.020	0.327	0.035	···	···	
3a	09:49:58.96	-00:52:49.22	16.255	0.012	0.178	0.915	0.042	0.785	0.016	0.250	0.014	0.440	0.021	···	···	
3b	09:49:58.48	-00:52:59.32	16.520	0.008	0.178	2.066	0.051	0.984	0.009	0.444	0.008	0.352	0.007	0.0916	0.0916	2MASXiJ0949584-0052599
3c	09:49:58.24	-00:52:54.89	18.877	0.016	0.178	1.864	0.220	1.017	0.027	0.375	0.020	0.179	0.041	···	···	
3d	09:49:57.36	-00:53:05.14	19.069	0.015	0.179	1.953	0.197	0.831	0.024	0.414	0.019	0.398	0.031	···	···	
4a	09:56:09.83	00:19:33.02	16.557	0.012	0.083	1.276	0.021	0.273	0.012	0.207	0.012	0.036	0.021	0.0354	···	
4b	09:56:09.62	00:19:29.87	17.937	0.013	0.083	0.333	0.013	-0.267	0.014	0.078	0.017	0.213	0.045	···	···	
4c	09:56:08.68	00:19:38.33	18.189	0.013	0.083	1.050	0.034	0.186	0.014	0.207	0.016	0.179	0.040	···	0.0352	2dFGRSN351Z064
4d	09:56:08.80	00:19:33.51	19.086	0.021	0.083	1.074	0.097	0.506	0.026	0.360	0.026	0.218	0.066	···	···	
5a	09:57:32.96	00:40:05.41	17.393	0.011	0.098	0.942	0.021	0.274	0.011	0.323	0.012	-0.483	0.033	0.0870	···	
5b	09:57:32.85	00:40:04.25	17.452	0.011	0.098	1.362	0.054	0.851	0.014	0.657	0.012	0.499	0.011	···	···	
5c	09:57:32.32	00:39:58.29	18.234	0.010	0.097	2.008	0.095	0.971	0.013	0.419	0.012	0.349	0.013	···	···	
5d	09:57:32.93	00:40:09.34	18.269	0.017	0.099	0.743	0.047	0.285	0.020	0.226	0.024	0.011	0.058	···	···	
6a	10:00:25.22	00:14:57.67	17.835	0.011	0.074	2.338	0.232	1.389	0.017	0.533	0.012	0.446	0.017	0.2195	···	
6b	10:00:24.84	00:15:10.64	17.866	0.014	0.075	1.950	0.225	1.268	0.022	0.530	0.016	0.434	0.027	···	···	
6c	10:00:25.36	00:14:53.01	18.747	0.015	0.074	1.491	0.184	1.423	0.027	0.506	0.018	0.422	0.029	···	···	
6d	10:00:24.27	00:15:02.94	18.750	0.017	0.074	2.410	0.446	1.221	0.029	0.523	0.021	0.468	0.035	···	···	
6e	10:00:24.81	00:15:02.81	20.822	0.043	0.074	2.564	0.814	1.082	0.076	0.627	0.053	0.563	0.087	···	···	
7a	10:01:24.49	01:07:23.66	16.737	0.007	0.056	1.961	0.059	0.879	0.008	0.421	0.008	0.418	0.008	···	···	
7b	10:01:24.35	01:07:31.56	18.509	0.012	0.056	1.659	0.110	0.844	0.015	0.404	0.014	0.444	0.022	···	···	
7c	10:01:25.82	01:07:40.52	18.576	0.018	0.056	1.583	0.201	0.894	0.027	0.266	0.024	0.239	0.050	···	···	
7d	10:01:25.44	01:07:32.10	19.562	0.026	0.056	1.702	0.362	0.840	0.041	0.414	0.036	0.302	0.077	···	···	
8a	10:01:26.92	00:20:39.08	17.539	0.011	0.074	2.398	0.233	1.433	0.016	0.564	0.011	0.396	0.015	···	···	
8b	10:01:27.34	00:20:54.56	17.626	0.011	0.074	2.545	0.311	1.402	0.018	0.569	0.013	0.326	0.020	0.2316	···	
8c	10:01:26.63	00:20:55.17	19.420	0.024	0.074	1.599	0.326	1.171	0.042	0.581	0.029	0.280	0.063	···	···	
8d	10:01:26.36	00:20:39.56	19.791	0.029	0.075	1.621	0.439	1.210	0.055	0.576	0.036	0.294	0.079	···	···	
8e	10:01:26.39	00:20:32.57	19.834	0.029	0.075	2.204	0.703	1.213	0.054	0.665	0.035	0.359	0.067	···	···	
9a	10:04:07.74	00:17:46.52	16.308	0.009	0.085	1.994	0.048	0.949	0.010	0.485	0.009	0.397	0.008	···	···	
9b	10:04:08.60	00:17:56.55	17.357	0.010	0.085	2.143	0.125	1.149	0.013	0.515	0.011	0.411	0.014	0.1398	···	
9c	10:04:07.27	00:17:43.80	18.523	0.015	0.085	1.549	0.113	0.732	0.019	0.366	0.019	0.266	0.041	···	···	
9d	10:04:06.54	00:18:14.45	19.290	0.020	0.085	1.994	0.597	1.644	0.048	0.628	0.024	0.336	0.047	···	···	
10a	10:06:02.12	01:12:04.22	16.871	0.008	0.086	1.781	0.075	1.070	0.010	0.517	0.009	0.396	0.010	···	···	

Table 2—Continued

Name (1)	α [J2000.0] (2)	δ [J2000.0] (3)	r^* (4)	σ_{r^*} (5)	$A(r^*)$ (6)	u^*-g^* (7)	$\sigma_{u^*-g^*}$ (8)	g^*-r^* (9)	$\sigma_{g^*-r^*}$ (10)	r^*-i^* (11)	$\sigma_{r^*-i^*}$ (12)	i^*-z^* (13)	$\sigma_{i^*-z^*}$ (14)	$z_{\rm sp}$ (15)	$z_{\rm NED}$ (16)	Notes (17)
10b	10:06:01.79	01:11:58.97	17.910	0.009	0.086	1.730	0.106	1.205	0.013	0.506	0.010	0.396	0.013	···	···	
10c	10:06:01.21	01:11:48.95	19.641	0.026	0.086	1.133	0.283	1.123	0.047	0.484	0.035	0.386	0.067	···	···	
10d	10:06:00.13	01:11:55.46	19.813	0.032	0.086	1.285	0.281	0.703	0.046	0.450	0.044	0.382	0.087	···	···	
11a	10:08:19.97	00:12:44.59	16.378	0.008	0.079	2.046	0.045	1.020	0.009	0.468	0.008	0.388	0.007	0.0935	···	
11b	10:08:20.72	00:12:58.35	18.592	0.015	0.079	1.881	0.182	0.938	0.021	0.423	0.018	0.333	0.036	···	···	
11c	10:08:19.49	00:12:54.47	18.788	0.017	0.079	1.832	0.211	0.922	0.025	0.378	0.021	0.345	0.046	···	···	
11d	10:08:20.62	00:12:54.61	19.217	0.026	0.079	1.393	0.211	0.798	0.037	0.334	0.034	0.504	0.071	···	···	
12a	10:08:21.77	01:11:26.90	17.126	0.012	0.102	1.942	0.244	1.406	0.021	0.510	0.014	0.307	0.024	···	···	
12b	10:08:20.74	01:11:10.25	18.483	0.013	0.102	1.888	0.213	1.194	0.020	0.575	0.015	0.384	0.023	···	···	
12c	10:08:21.75	01:11:24.29	19.162	0.027	0.102	2.136	0.622	1.021	0.046	0.775	0.033	0.504	0.049	···	···	
12d	10:08:21.23	01:11:00.41	19.374	0.018	0.102	2.713	0.777	1.364	0.034	0.588	0.022	0.378	0.038	···	···	
13a	10:08:36.40	-00:04:24.23	17.039	0.010	0.079	2.055	0.094	1.239	0.012	0.523	0.010	0.397	0.010	0.1844	···	
13b	10:08:37.33	-00:04:36.72	19.009	0.019	0.079	2.671	0.648	1.237	0.034	0.575	0.022	0.387	0.037	···	···	
13c	10:08:37.07	-00:04:17.30	19.316	0.025	0.079	1.929	0.435	1.077	0.044	0.554	0.031	0.326	0.059	···	···	
13d	10:08:37.51	-00:04:33.93	19.865	0.027	0.079	1.445	0.307	1.093	0.048	0.499	0.034	0.381	0.064	···	···	
14a	10:10:56.62	00:15:22.76	17.148	0.010	0.084	1.962	0.114	1.271	0.013	0.502	0.011	0.384	0.014	0.1862	···	
14b	10:10:56.20	00:15:12.60	19.715	0.038	0.083	5.545	0.579	1.567	0.096	0.739	0.046	0.469	0.085	···	···	
14c	10:10:56.72	00:14:58.26	19.893	0.025	0.083	1.894	0.441	1.183	0.043	0.397	0.031	0.403	0.068	···	···	
14d	10:10:56.32	00:15:03.84	20.021	0.031	0.083	2.091	0.821	1.424	0.066	0.500	0.039	0.407	0.084	···	···	
15a	10:13:39.11	-00:08:36.04	17.657	0.010	0.095	1.902	0.067	0.900	0.011	0.380	0.011	0.343	0.013	···	···	
15b	10:13:38.34	-00:08:47.50	18.177	0.011	0.095	1.917	0.102	0.964	0.014	0.461	0.012	0.378	0.016	···	···	
15c	10:13:39.48	-00:08:44.58	19.660	0.033	0.094	1.900	0.432	0.783	0.049	0.428	0.043	0.220	0.100	···	···	
15d	10:13:38.93	-00:08:42.97	19.755	0.041	0.095	2.587	1.952	1.849	0.133	0.898	0.047	0.573	0.063	···	···	
16a	10:15:38.96	-00:52:01.09	17.791	0.011	0.126	2.167	0.159	1.172	0.016	0.497	0.012	0.365	0.015	···	0.1778	2dFGRSN289Z111
16b	10:15:39.69	-00:51:51.88	19.064	0.020	0.126	1.472	0.180	0.824	0.032	0.394	0.026	0.265	0.053	···	···	
16c	10:15:40.44	-00:51:54.89	19.819	0.036	0.127	0.652	0.206	1.024	0.070	0.403	0.049	0.469	0.087	···	···	
16d	10:15:39.97	-00:51:44.38	20.021	0.028	0.126	1.489	0.367	1.118	0.058	0.447	0.037	0.417	0.066	···	···	
16e	10:15:38.85	-00:51:56.95	20.319	0.046	0.126	2.661	1.184	0.849	0.083	0.468	0.063	0.118	0.147	···	···	
17a	10:21:11.62	01:04:49.51	17.180	0.011	0.145	1.701	0.136	1.089	0.016	0.456	0.014	0.328	0.023	···	···	
17b	10:21:11.33	01:04:52.45	17.263	0.009	0.145	2.195	0.178	1.343	0.013	0.525	0.010	0.480	0.012	···	···	
17c	10:21:10.76	01:04:46.19	17.714	0.013	0.144	1.704	0.189	1.174	0.020	0.477	0.016	0.506	0.024	···	···	
17d	10:21:10.40	01:05:06.73	19.145	0.021	0.146	2.155	0.550	1.229	0.037	0.460	0.027	0.429	0.049	···	···	
17e	10:21:11.95	01:05:08.04	19.367	0.020	0.147	2.962	1.008	1.268	0.036	0.543	0.025	0.413	0.044	···	···	
17f	10:21:12.71	01:05:06.70	19.801	0.061	0.147	1.720	0.934	0.899	0.099	0.360	0.089	0.173	0.228	···	···	
18a	10:25:37.41	-00:33:52.66	17.245	0.010	0.185	2.159	0.124	1.208	0.012	0.534	0.010	0.433	0.010	0.1693	0.1693	2MASXiJ1025374-003353
18b	10:25:37.87	-00:33:44.26	18.010	0.012	0.186	2.483	0.266	1.237	0.016	0.527	0.013	0.375	0.016	···	···	
18c	10:25:38.10	-00:33:31.49	19.716	0.023	0.188	1.489	0.288	1.144	0.038	0.532	0.028	0.348	0.047	···	···	
18d	10:25:38.11	-00:33:48.01	19.858	0.037	0.186	0.625	0.895	2.610	0.229	0.875	0.044	0.581	0.053	···	···	
18e	10:25:37.48	-00:33:32.96	20.242	0.052	0.187	1.528	0.545	0.795	0.078	0.350	0.073	0.537	0.127	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
19a	10:25:45.66	01:10:27.21	17.217	0.010	0.154	1.453	0.057	0.804	0.012	0.448	0.011	0.382	0.014	···	···	
19b	10:25:44.63	01:10:28.51	17.437	0.010	0.155	1.608	0.068	0.787	0.011	0.380	0.011	0.356	0.017	···	···	
19c	10:25:45.95	01:10:46.99	19.268	0.018	0.153	1.504	0.194	0.888	0.027	0.377	0.024	0.335	0.049	···	···	
19d	10:25:44.91	01:10:41.53	20.133	0.046	0.154	0.657	0.171	0.446	0.059	0.269	0.068	0.410	0.145	···	···	
20a	10:26:01.52	-00:29:31.05	17.723	0.011	0.212	2.261	0.204	1.266	0.016	0.520	0.012	0.459	0.014	0.1715	···	
20b	10:26:01.33	-00:29:38.96	18.233	0.018	0.212	1.503	0.206	1.130	0.028	0.520	0.022	0.466	0.032	···	···	
20c	10:26:00.79	-00:29:31.32	19.209	0.026	0.212	2.885	1.111	1.111	0.043	0.522	0.032	0.441	0.053	···	···	
20d	10:26:00.92	-00:29:20.40	19.794	0.035	0.213	0.584	0.192	1.027	0.059	0.481	0.046	0.543	0.073	···	···	
20e	10:26:02.29	-00:29:37.03	20.077	0.052	0.211	1.421	1.208	1.778	0.157	0.935	0.060	0.508	0.078	···	···	
21a	10:26:13.85	-00:02:04.47	16.924	0.012	0.156	2.254	0.134	0.965	0.014	0.449	0.013	0.420	0.016	0.1034	0.1034	2MASXiJ1026137-000201
21b	10:26:13.36	-00:02:10.72	17.364	0.009	0.157	1.937	0.043	0.933	0.010	0.434	0.009	0.360	0.007	···	···	
21c	10:26:13.82	-00:02:00.89	18.474	0.012	0.157	1.659	0.080	0.984	0.015	0.475	0.013	0.322	0.016	0.1048	···	
21d	10:26:13.15	-00:02:32.91	19.000	0.021	0.156	1.169	0.105	0.573	0.027	0.400	0.027	0.333	0.054	···	···	
22a	10:26:36.45	00:44:08.19	16.372	0.008	0.144	2.056	0.037	1.009	0.008	0.502	0.008	0.376	0.005	0.1056	···	
22b	10:26:37.44	00:43:32.08	18.078	0.010	0.145	1.867	0.077	0.972	0.012	0.460	0.011	0.397	0.012	···	···	
22c	10:26:38.25	00:43:56.11	18.638	0.012	0.145	2.304	0.266	1.256	0.019	0.542	0.014	0.361	0.021	···	···	
22d	10:26:38.10	00:43:43.06	19.169	0.029	0.145	1.150	0.154	0.696	0.038	0.321	0.040	0.236	0.080	···	···	
23a	10:28:33.74	-00:01:21.63	17.672	0.013	0.189	1.372	0.097	1.196	0.018	0.508	0.014	0.463	0.018	···	···	
23b	10:28:34.35	-00:01:09.32	19.072	0.033	0.188	1.069	0.330	1.282	0.064	0.496	0.042	0.340	0.085	···	···	
23c	10:28:33.76	-00:01:13.26	20.376	0.041	0.188	1.331	0.538	1.306	0.081	0.565	0.051	0.395	0.092	···	···	
23d	10:28:34.45	-00:01:03.64	20.592	0.043	0.188	1.001	0.286	0.846	0.065	0.241	0.062	0.758	0.101	···	···	
24a	10:34:00.40	00:24:39.26	17.233	0.010	0.188	2.039	0.094	1.149	0.012	0.560	0.011	0.367	0.012	0.1499	···	
24b	10:33:59.92	00:24:42.20	18.809	0.015	0.188	2.171	0.261	1.205	0.021	0.511	0.017	0.392	0.028	···	···	
24c	10:34:00.63	00:24:22.97	18.825	0.031	0.189	0.897	0.314	1.464	0.066	0.630	0.039	0.433	0.076	···	···	
24d	10:34:00.17	00:24:33.95	19.241	0.022	0.188	1.456	0.336	1.445	0.043	0.761	0.026	0.528	0.040	···	···	
25a	10:36:26.28	01:10:40.47	17.555	0.009	0.127	1.639	0.046	0.652	0.010	0.377	0.010	0.350	0.013	···	···	
25b	10:36:27.52	01:10:31.69	18.901	0.012	0.127	2.672	0.334	1.279	0.017	0.745	0.013	0.426	0.015	···	···	
25c	10:36:27.15	01:10:31.60	19.387	0.024	0.127	3.288	1.302	1.081	0.040	0.539	0.031	0.054	0.075	···	···	
25d	10:36:27.35	01:10:31.51	20.059	0.054	0.127	-0.136	0.164	1.020	0.094	-4.214	1.930	4.541	1.941	···	···	
26a	10:37:22.77	-00:30:48.46	17.048	0.011	0.192	1.349	0.043	0.764	0.013	0.509	0.012	0.370	0.012	0.1140	···	
26b	10:37:23.85	-00:30:54.92	19.402	0.046	0.191	0.933	0.236	0.608	0.062	0.368	0.063	0.344	0.127	···	···	
26c	10:37:22.89	-00:31:02.72	19.441	0.027	0.192	1.005	0.124	0.504	0.033	0.327	0.035	0.192	0.079	···	···	
26d	10:37:23.98	-00:31:03.41	19.834	0.032	0.191	0.906	0.117	0.249	0.039	0.319	0.045	0.233	0.102	···	···	
27a	10:41:01.81	-00:57:08.74	16.285	0.008	0.144	1.981	0.035	1.000	0.008	0.452	0.008	0.349	0.005	0.0869	0.0869	2MASX J10405936+0057318
27b	10:40:59.13	-00:57:28.15	16.590	0.008	0.144	1.965	0.035	0.924	0.008	0.414	0.008	0.332	0.006	···	···	
27c	10:40:59.70	-00:57:40.01	17.576	0.011	0.145	1.550	0.060	0.862	0.014	0.421	0.012	0.344	0.015	···	···	
27d	10:40:59.71	-00:57:32.76	18.215	0.011	0.144	1.945	0.092	0.818	0.014	0.396	0.013	0.278	0.018	···	···	
27e	10:40:58.28	-00:57:32.80	18.754	0.023	0.144	1.594	0.214	0.725	0.035	0.291	0.032	0.209	0.073	···	···	
28a	10:49:19.43	00:14:06.16	17.209	0.008	0.112	2.072	0.067	1.130	0.009	0.450	0.008	0.424	0.009	0.1254	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
28b	10:49:19.03	00:14:01.92	17.335	0.015	0.112	1.116	0.099	1.054	0.021	0.364	0.019	0.368	0.040	···	···	
28c	10:49:20.13	00:14:17.62	18.001	0.011	0.112	1.656	0.090	0.990	0.014	0.410	0.012	0.409	0.021	···	···	
28d	10:49:20.68	00:14:19.70	18.015	0.009	0.112	1.092	0.032	0.748	0.011	0.404	0.011	0.337	0.017	···	···	
29a	10:50:36.80	00:22:16.41	17.263	0.009	0.121	1.956	0.081	1.105	0.011	0.482	0.010	0.370	0.012	0.1496	···	
29b	10:50:36.05	00:21:56.74	18.679	0.015	0.121	2.267	0.294	1.031	0.022	0.535	0.018	0.426	0.033	···	···	
29c	10:50:36.31	00:22:12.57	19.445	0.028	0.121	1.497	0.268	0.865	0.039	0.515	0.035	0.600	0.062	···	···	
29d	10:50:36.59	00:21:51.39	19.786	0.027	0.121	1.337	0.230	0.910	0.038	0.473	0.034	0.453	0.070	···	···	
29e	10:50:37.12	00:22:08.42	20.099	0.037	0.121	0.766	0.301	1.329	0.072	0.454	0.049	0.454	0.108	···	···	
29f	10:50:35.49	00:22:12.67	20.184	0.058	0.120	2.023	1.791	1.799	0.161	1.201	0.063	0.589	0.077	···	···	
30a	11:01:01.80	01:05:47.36	16.696	0.008	0.079	2.366	0.146	1.188	0.010	0.501	0.009	0.394	0.010	0.1849	···	
30b	11:01:01.51	01:05:59.90	18.251	0.013	0.079	1.582	0.174	1.200	0.019	0.496	0.015	0.418	0.025	···	···	
30c	11:01:03.15	01:06:01.17	19.026	0.019	0.078	1.250	0.131	0.618	0.024	0.361	0.026	0.233	0.057	···	···	
30d	11:01:01.31	01:05:43.80	19.220	0.018	0.079	1.903	0.407	1.300	0.031	0.502	0.023	0.235	0.048	···	···	
31a	11:02:45.15	00:39:38.66	16.233	0.007	0.092	2.085	0.040	0.991	0.008	0.439	0.008	0.364	0.006	0.0964	···	
31b	11:02:45.11	00:39:22.73	17.213	0.011	0.092	1.501	0.057	0.763	0.013	0.414	0.013	0.192	0.020	···	0.1233	2dFGRSN367Z014
31c	11:02:44.32	00:39:23.86	17.808	0.012	0.092	1.185	0.036	0.494	0.013	0.331	0.014	0.152	0.025	···	···	
31d	11:02:43.67	00:39:18.05	18.360	0.012	0.092	1.740	0.098	0.967	0.015	0.377	0.014	0.313	0.021	···	···	
32a	11:03:55.55	00:37:54.97	16.649	0.015	0.106	1.074	0.042	0.537	0.016	0.239	0.018	0.167	0.032	0.0964	···	
32b	11:03:57.17	00:38:05.11	17.786	0.011	0.106	1.283	0.038	0.606	0.012	0.332	0.012	0.206	0.020	···	···	
32c	11:03:54.90	00:37:59.71	18.703	0.018	0.106	1.366	0.131	0.892	0.025	0.427	0.024	0.273	0.043	···	···	
32d	11:03:56.01	00:38:23.51	18.732	0.021	0.107	1.204	0.094	0.595	0.025	0.368	0.027	0.139	0.054	···	···	
33a	11:04:04.74	01:04:37.20	17.375	0.008	0.145	1.125	0.030	0.859	0.009	0.591	0.008	0.366	0.009	0.1204	···	
33b	11:04:04.76	01:04:49.26	18.115	0.015	0.146	1.852	0.211	1.000	0.021	0.567	0.018	0.494	0.027	···	···	
33c	11:04:05.69	01:04:39.72	19.952	0.026	0.146	1.704	0.391	1.028	0.041	0.418	0.036	0.317	0.075	···	···	
33d	11:04:05.91	01:04:44.92	20.087	0.041	0.147	0.857	0.272	0.887	0.063	0.408	0.058	0.073	0.156	···	···	
34a	11:09:40.39	00:45:24.08	17.950	0.015	0.114	4.919	2.853	1.712	0.030	0.671	0.017	0.366	0.023	···	···	
34b	11:09:40.00	00:45:36.55	18.500	0.014	0.114	3.386	1.044	1.761	0.028	0.648	0.016	0.345	0.021	0.3319	···	
34c	11:09:40.74	00:45:37.70	19.717	0.032	0.114	1.122	0.418	1.584	0.074	0.660	0.041	0.273	0.072	···	···	
34d	11:09:39.85	00:45:34.66	19.758	0.034	0.114	2.536	1.305	1.609	0.079	0.580	0.044	0.451	0.072	···	···	
34e	11:09:39.21	00:45:42.02	20.543	0.044	0.114	2.236	1.011	1.526	0.098	0.672	0.055	0.443	0.086	···	···	
34f	11:09:40.47	00:45:31.17	20.920	0.049	0.114	1.635	0.779	1.526	0.113	0.565	0.066	0.564	0.101	···	···	
35a	11:11:10.97	01:06:17.22	16.244	0.007	0.097	1.907	0.033	0.932	0.007	0.422	0.007	0.387	0.005	0.0909	···	
35b	11:11:11.75	01:06:24.75	17.616	0.010	0.097	1.826	0.103	0.857	0.013	0.372	0.012	0.320	0.020	···	···	
35c	11:11:13.26	01:06:35.08	18.380	0.010	0.098	1.546	0.085	0.690	0.013	0.369	0.013	0.295	0.025	···	···	
35d	11:11:11.97	01:06:35.42	18.928	0.023	0.097	1.525	0.253	0.942	0.033	0.520	0.028	0.326	0.051	···	···	
36a	11:13:36.54	-00:28:49.86	16.659	0.010	0.102	1.857	0.079	1.027	0.012	0.485	0.011	0.415	0.011	0.1000	0.1000	NEDGROUP
36b	11:13:36.53	-00:29:00.92	18.213	0.010	0.102	2.477	0.198	1.327	0.013	0.677	0.011	0.384	0.009	···	···	
36c	11:13:35.85	-00:28:44.11	18.857	0.021	0.102	0.976	0.073	0.363	0.024	0.264	0.028	0.071	0.068	···	···	
36d	11:13:36.45	-00:28:39.81	19.081	0.019	0.102	3.033	1.157	1.481	0.037	0.568	0.023	0.379	0.036	···	···	
36e	11:13:37.07	-00:29:02.51	19.565	0.021	0.102	1.494	0.314	1.306	0.037	0.479	0.025	0.299	0.045	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
37a	11:14:59.21	-00:35:53.15	16.493	0.010	0.153	1.375	0.028	0.662	0.011	0.447	0.011	0.305	0.010	···	···	
37b	11:14:58.80	-00:36:27.48	18.017	0.012	0.153	2.483	0.402	1.545	0.021	0.617	0.014	0.416	0.017	···	···	
37c	11:14:59.64	-00:36:13.86	19.093	0.015	0.154	0.700	0.045	0.421	0.018	0.307	0.020	0.145	0.045	···	···	
37d	11:14:58.12	-00:35:50.51	19.309	0.019	0.151	1.694	0.354	1.409	0.036	0.633	0.022	0.450	0.034	···	···	
38a	11:15:37.85	-00:01:54.60	17.548	0.009	0.160	0.875	0.014	0.403	0.009	0.322	0.010	0.131	0.014	···	···	
38b	11:15:36.76	-00:01:45.34	17.610	0.009	0.161	1.963	0.054	0.929	0.010	0.412	0.009	0.328	0.009	···	···	
38c	11:15:37.73	-00:01:46.08	18.396	0.016	0.161	1.118	0.071	0.619	0.020	0.424	0.019	0.162	0.041	···	···	
38d	11:15:37.39	-00:01:55.52	19.347	0.020	0.160	2.067	0.308	0.894	0.029	0.375	0.025	0.348	0.050	···	···	
39a	11:21:09.61	00:12:42.81	15.972	0.008	0.095	2.008	0.038	1.030	0.008	0.444	0.008	0.388	0.006	···	···	
39b	11:21:07.97	00:12:42.51	17.760	0.011	0.096	1.954	0.106	0.948	0.013	0.411	0.012	0.336	0.020	···	···	
39c	11:21:06.74	00:12:35.80	18.528	0.014	0.096	1.631	0.128	0.970	0.018	0.409	0.017	0.387	0.031	···	···	
39d	11:21:09.14	00:12:36.86	18.751	0.017	0.095	1.273	0.157	1.248	0.026	0.374	0.021	0.551	0.036	···	···	
40a	11:22:02.20	00:24:55.44	17.792	0.013	0.077	1.019	0.044	0.724	0.015	0.477	0.014	0.261	0.026	···	···	
40b	11:22:03.08	00:25:05.10	19.562	0.024	0.077	1.433	0.271	1.192	0.038	0.602	0.028	0.321	0.057	···	···	
40c	11:22:03.04	00:24:57.01	19.995	0.032	0.077	0.744	0.137	0.694	0.042	0.184	0.046	0.329	0.124	···	···	
40d	11:22:02.39	00:24:51.31	20.671	0.048	0.077	0.574	0.249	1.031	0.077	0.555	0.061	0.718	0.098	···	···	
41a	11:29:30.10	-00:33:13.88	17.751	0.011	0.080	1.418	0.065	0.648	0.013	0.405	0.013	0.304	0.022	0.0754	···	
41b	11:29:30.55	-00:33:02.99	20.051	0.037	0.079	2.462	1.463	1.725	0.100	0.576	0.047	0.406	0.080	···	···	
41c	11:29:31.12	-00:33:07.56	20.060	0.041	0.079	1.178	0.755	1.747	0.117	0.620	0.052	0.440	0.087	···	···	
41d	11:29:31.41	-00:33:10.16	20.229	0.041	0.079	1.752	0.797	1.327	0.083	0.598	0.052	0.492	0.083	···	···	
42a	11:31:39.63	00:12:54.16	16.180	0.011	0.069	1.613	0.045	0.927	0.012	0.403	0.011	0.357	0.012	0.1324	···	
42b	11:31:38.25	00:12:53.33	16.918	0.010	0.069	1.307	0.037	0.972	0.012	0.529	0.011	0.344	0.011	···	···	
42c	11:31:38.80	00:13:08.41	16.949	0.011	0.069	2.077	0.112	1.115	0.013	0.582	0.012	0.475	0.013	0.1324	···	
42d	11:31:38.13	00:13:01.77	18.552	0.016	0.069	2.315	0.484	1.565	0.030	0.555	0.018	0.429	0.030	···	···	
42e	11:31:37.28	00:12:48.98	18.580	0.017	0.069	1.411	0.140	1.004	0.023	0.455	0.020	0.310	0.039	···	···	
42f	11:31:37.08	00:12:55.77	18.592	0.017	0.069	1.584	0.202	1.261	0.026	0.598	0.019	0.471	0.030	···	···	
43a	11:33:11.86	-00:27:52.84	15.918	0.010	0.067	1.316	0.041	0.862	0.011	0.431	0.011	0.351	0.012	0.1050	0.1050	MASX J11331190-0027528
43b	11:33:12.48	-00:27:19.82	17.732	0.010	0.067	1.922	0.099	0.965	0.012	0.435	0.011	0.404	0.013	···	···	
43c	11:33:10.93	-00:26:57.89	17.787	0.010	0.067	1.963	0.098	1.048	0.012	0.459	0.011	0.352	0.012	···	···	
43d	11:33:12.46	-00:27:06.84	17.849	0.011	0.067	1.981	0.124	1.030	0.013	0.466	0.012	0.389	0.015	···	···	
43e	11:33:09.85	-00:27:32.23	17.997	0.010	0.067	2.317	0.341	1.480	0.019	0.548	0.012	0.416	0.018	···	···	
44a	11:43:41.31	00:38:50.88	17.966	0.018	0.076	1.476	0.235	1.389	0.031	0.439	0.022	0.416	0.034	···	···	
44b	11:43:40.54	00:39:06.94	20.081	0.035	0.076	1.052	0.221	0.828	0.049	0.281	0.050	0.329	0.095	···	···	
44c	11:43:40.28	00:38:59.99	20.315	0.037	0.076	2.985	1.138	1.323	0.069	0.507	0.048	0.440	0.075	···	···	
44d	11:43:40.72	00:38:46.17	20.477	0.036	0.076	3.366	0.854	1.397	0.072	0.522	0.048	0.266	0.085	···	···	
45a	11:46:30.02	-01:01:21.60	17.436	0.010	0.055	1.082	0.026	0.486	0.011	0.310	0.011	0.190	0.017	0.0799	···	
45b	11:46:28.65	-01:01:15.89	18.165	0.011	0.054	1.639	0.100	0.907	0.016	0.517	0.013	0.348	0.020	···	···	
45c	11:46:29.46	-01:01:24.41	19.730	0.030	0.055	1.130	0.143	0.510	0.041	0.224	0.043	0.114	0.103	···	···	
45d	11:46:28.36	-01:01:29.38	20.427	0.056	0.055	0.772	0.196	0.459	0.076	0.119	0.086	-0.071	0.263	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
46a	11:48:36.47	00:46:52.74	16.094	0.008	0.069	2.087	0.042	1.058	0.009	0.456	0.008	0.401	0.005	0.1260	···	
46b	11:48:37.01	00:47:18.70	17.724	0.010	0.069	1.776	0.077	1.051	0.012	0.441	0.011	0.378	0.012	···	···	
46c	11:48:37.19	00:46:52.69	18.464	0.012	0.069	2.034	0.124	1.098	0.015	0.402	0.013	0.344	0.016	···	···	
46d	11:48:36.28	00:47:18.93	18.553	0.015	0.069	1.532	0.099	0.806	0.018	0.473	0.017	0.351	0.024	···	···	
46e	11:48:38.21	00:46:56.29	18.787	0.020	0.069	1.734	0.243	0.960	0.030	0.406	0.027	0.340	0.046	···	···	
47a	11:51:11.03	00:17:01.23	17.901	0.024	0.066	1.217	0.127	0.734	0.030	0.300	0.030	-0.001	0.086	···	···	
47b	11:51:10.74	00:17:04.47	18.107	0.012	0.066	2.144	0.144	1.106	0.015	0.518	0.012	0.371	0.017	···	···	
47c	11:51:10.81	00:16:52.46	20.096	0.039	0.066	1.039	0.247	0.821	0.057	0.307	0.053	0.432	0.121	···	···	
47d	11:51:11.64	00:17:04.89	20.323	0.039	0.066	0.830	0.138	0.367	0.048	0.289	0.053	0.213	0.146	···	···	
48a	11:55:03.58	-00:34:50.64	16.283	0.011	0.073	1.495	0.056	0.855	0.012	0.419	0.011	0.354	0.013	···	···	
48b	11:55:04.81	-00:35:22.95	16.344	0.009	0.072	1.536	0.046	0.872	0.010	0.406	0.010	0.335	0.010	···	···	
48c	11:55:05.75	-00:34:56.23	16.624	0.013	0.073	1.170	0.053	0.681	0.015	0.282	0.015	0.217	0.024	0.1353	···	
48d	11:55:05.05	-00:35:07.61	17.460	0.011	0.073	1.142	0.043	0.708	0.013	0.401	0.013	0.343	0.016	0.1274	···	
48e	11:55:06.34	-00:34:56.04	18.135	0.016	0.073	1.376	0.129	0.841	0.022	0.439	0.020	0.265	0.034	···	···	
49a	11:55:40.76	-00:55:30.74	17.006	0.008	0.063	1.866	0.065	1.110	0.010	0.381	0.009	0.107	0.011	0.1067	0.1067	2MASX J11554077-0055309
49b	11:55:41.23	-00:55:29.37	17.803	0.010	0.063	0.990	0.051	1.190	0.015	0.419	0.011	0.217	0.015	···	···	
49c	11:55:39.76	-00:55:24.74	17.954	0.011	0.063	1.434	0.066	0.762	0.015	0.388	0.013	0.265	0.019	···	···	
49d	11:55:40.36	-00:55:32.40	19.079	0.018	0.063	0.323	0.139	1.793	0.055	0.250	0.025	-0.122	0.066	···	···	
50a	11:55:41.09	-00:53:02.31	17.358	0.009	0.064	1.850	0.059	0.851	0.010	0.350	0.010	0.353	0.010	0.0761	···	
50b	11:55:41.80	-00:53:11.95	17.759	0.009	0.064	2.085	0.090	0.959	0.011	0.449	0.010	0.378	0.010	···	···	
50c	11:55:41.29	-00:53:08.74	18.840	0.016	0.064	1.410	0.272	1.729	0.042	0.528	0.019	0.414	0.026	0.3390	···	
50d	11:55:41.87	-00:53:15.12	19.246	0.025	0.064	1.468	0.184	0.613	0.036	0.169	0.037	0.001	0.094	···	···	
51a	11:56:37.38	01:07:00.84	16.280	0.011	0.044	1.040	0.038	0.430	0.013	0.178	0.014	0.158	0.028	···	···	
51b	11:56:38.62	01:07:16.70	17.241	0.008	0.044	0.824	0.019	0.373	0.009	0.290	0.010	0.157	0.016	0.1573	···	
51c	11:56:35.52	01:07:20.09	17.719	0.008	0.044	1.996	0.085	0.966	0.010	0.381	0.009	0.395	0.011	···	···	
51d	11:56:37.43	01:06:52.77	19.214	0.022	0.044	1.310	0.168	0.679	0.030	0.311	0.030	0.356	0.059	···	···	
52a	11:57:43.41	-00:52:16.60	16.128	0.010	0.069	1.131	0.024	0.676	0.011	0.179	0.011	0.129	0.015	···	0.1318	2MASX J11574348-0052178
52b	11:57:43.05	-00:52:31.39	18.314	0.013	0.069	1.981	0.176	0.976	0.020	0.404	0.016	0.308	0.025	···	···	
52c	11:57:44.16	-00:52:43.44	18.601	0.013	0.069	1.115	0.057	0.680	0.017	0.362	0.015	0.252	0.026	···	···	
52d	11:57:44.95	-00:52:09.32	19.072	0.021	0.069	1.013	0.095	0.533	0.029	0.371	0.028	0.158	0.057	···	···	
53a	11:58:20.85	-00:05:05.07	16.766	0.009	0.092	2.118	0.066	1.072	0.010	0.431	0.009	0.420	0.007	0.1058	0.1058	2MASX J11582083-0005047
53b	11:58:21.42	-00:05:04.53	17.625	0.010	0.092	1.702	0.068	1.042	0.012	0.440	0.011	0.431	0.011	···	···	
53c	11:58:19.18	-00:05:13.86	18.645	0.018	0.093	1.663	0.306	1.486	0.035	0.499	0.021	0.421	0.033	···	···	
53d	11:58:21.52	-00:05:20.78	18.773	0.012	0.093	1.032	0.045	0.499	0.014	0.353	0.014	0.129	0.029	···	···	
54a	11:58:27.70	00:43:04.45	14.843	0.007	0.062	2.093	0.016	1.014	0.007	0.486	0.007	0.411	0.002	···	0.0474	UGC06959NED03
54b	11:58:26.12	00:42:47.14	16.216	0.007	0.061	2.046	0.023	0.885	0.008	0.407	0.008	0.309	0.003	0.0784	0.0786	UGC06959NED02
54c	11:58:25.30	00:42:24.61	16.759	0.008	0.061	2.055	0.026	0.864	0.008	0.430	0.008	0.394	0.003	···	0.0475	UGC06959NED01
54d	11:58:24.80	00:42:17.79	16.796	0.026	0.061	2.006	0.250	0.688	0.033	0.596	0.030	0.584	0.033	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
55a	12:00:08.06	00:40:25.81	15.931	0.007	0.066	2.151	0.031	0.967	0.008	0.439	0.008	0.339	0.004	0.0854	···	
55b	12:00:10.35	00:40:21.92	18.276	0.011	0.066	1.775	0.100	1.090	0.014	0.437	0.013	0.319	0.015	···	···	
55c	12:00:08.34	00:40:36.00	18.290	0.010	0.066	2.441	0.130	1.244	0.012	0.400	0.011	0.372	0.009	···	···	
55d	12:00:08.38	00:40:37.71	18.796	0.013	0.066	1.567	0.097	1.137	0.018	0.426	0.015	0.203	0.020	···	···	
56a	12:00:09.90	-00:35:49.93	16.416	0.008	0.075	1.924	0.066	1.204	0.010	0.491	0.009	0.399	0.006	0.1694	0.1694	2MASX J12000991-0035499
56b	12:00:10.57	-00:35:36.77	17.222	0.009	0.075	1.798	0.079	1.197	0.011	0.529	0.010	0.436	0.008	0.1695	0.1695	2MASX J12001057-0035369
56c	12:00:08.79	-00:36:03.46	19.128	0.017	0.075	2.275	0.412	1.177	0.027	0.447	0.020	0.368	0.031	···	0.1485	
56d	12:00:11.35	-00:35:58.46	19.396	0.021	0.074	2.792	0.823	1.103	0.036	0.439	0.027	0.416	0.044	···	···	
57a	12:00:13.54	-00:25:18.55	16.582	0.008	0.080	1.940	0.041	0.946	0.008	0.422	0.008	0.375	0.005	0.0766	0.0766	2MASX J12001350-0025189
57b	12:00:13.95	-00:25:27.06	17.457	0.010	0.080	1.035	0.024	0.471	0.010	0.334	0.010	0.161	0.014	···	···	
57c	12:00:14.01	-00:25:29.36	18.470	0.011	0.080	2.382	0.218	1.192	0.016	0.557	0.012	0.365	0.012	···	···	
57d	12:00:12.44	-00:25:49.22	19.341	0.018	0.080	2.343	0.576	1.320	0.033	0.436	0.022	0.339	0.035	···	···	
57e	12:00:12.40	-00:25:36.41	19.576	0.023	0.080	2.302	0.776	1.361	0.045	0.480	0.028	0.453	0.043	···	···	
58a	12:00:56.89	-00:07:58.92	17.095	0.012	0.059	1.521	0.098	1.077	0.017	0.451	0.014	0.391	0.019	···	···	
58b	12:00:57.65	-00:07:53.74	18.643	0.017	0.059	1.981	0.273	1.123	0.026	0.480	0.020	0.280	0.035	···	···	
58c	12:00:57.56	-00:08:00.54	19.616	0.023	0.059	2.196	0.557	1.282	0.042	0.584	0.027	0.386	0.043	···	···	
58d	12:00:56.31	-00:08:01.72	19.755	0.028	0.059	0.444	0.080	0.531	0.036	0.020	0.042	0.256	0.105	···	···	
59a	12:02:23.46	01:14:43.24	17.868	0.012	0.057	1.780	0.237	1.410	0.022	0.557	0.014	0.326	0.022	···	···	
59b	12:02:23.06	01:14:42.55	18.246	0.016	0.057	2.306	0.557	1.432	0.032	0.465	0.020	0.554	0.030	···	···	
59c	12:02:22.48	01:14:56.31	18.709	0.018	0.057	1.146	0.165	1.076	0.029	0.417	0.023	0.435	0.039	···	···	
59d	12:02:22.04	01:14:52.91	20.293	0.041	0.057	1.962	0.928	1.200	0.079	0.551	0.053	0.579	0.084	···	···	
59e	12:02:23.15	01:14:35.28	20.574	0.058	0.057	0.807	0.353	0.743	0.088	0.068	0.098	0.812	0.164	···	···	
60a	12:09:28.31	-00:00:32.08	17.523	0.011	0.062	1.713	0.110	1.306	0.015	0.481	0.012	0.357	0.014	···	···	
60b	12:09:27.70	-00:00:30.05	19.720	0.032	0.062	1.316	0.348	1.148	0.057	0.407	0.042	0.429	0.075	···	···	
60c	12:09:27.87	-00:00:26.56	19.913	0.027	0.062	2.752	1.041	1.639	0.063	0.712	0.031	0.415	0.044	···	···	
60d	12:09:28.77	-00:00:25.48	20.211	0.030	0.062	2.534	0.937	1.751	0.077	0.580	0.035	0.356	0.058	···	···	
61a	12:09:52.42	-00:33:58.28	16.817	0.009	0.056	2.056	0.081	1.299	0.010	0.516	0.009	0.391	0.006	···	···	
61b	12:09:50.88	-00:34:00.97	17.421	0.010	0.056	1.938	0.120	1.232	0.013	0.504	0.011	0.360	0.011	0.1869	···	
61c	12:09:51.27	-00:34:14.78	18.858	0.018	0.056	1.591	0.248	1.190	0.030	0.447	0.022	0.340	0.035	···	···	
61d	12:09:50.96	-00:33:54.76	19.286	0.023	0.056	1.281	0.190	0.903	0.034	0.429	0.029	0.355	0.047	···	···	
61e	12:09:51.66	-00:34:03.86	19.571	0.138	0.056	0.531	1.310	1.736	0.367	0.043	0.212	-0.018	0.606	···	···	
62a	12:14:15.32	-00:26:57.87	17.367	0.011	0.056	2.274	0.269	1.502	0.018	0.565	0.012	0.284	0.015	0.2452	0.2452	2MASX J12141532-0026584
62b	12:14:15.48	-00:26:56.69	19.271	0.017	0.056	2.224	0.450	1.541	0.032	0.577	0.019	0.329	0.024	···	0.2452	2MASX J12141532-0026584
62c	12:14:15.94	-00:26:57.50	19.352	0.023	0.056	2.224	0.676	1.381	0.044	0.378	0.029	0.640	0.039	···	···	
62d	12:14:15.31	-00:27:01.17	19.619	0.027	0.056	1.325	0.376	1.374	0.056	0.356	0.035	0.575	0.053	···	···	
63a	12:15:31.40	00:38:32.89	17.883	0.011	0.063	1.869	0.085	0.887	0.013	0.399	0.012	0.062	0.018	···	···	
63b	12:15:31.16	00:38:30.78	18.730	0.017	0.063	1.008	0.062	0.528	0.021	0.258	0.022	0.077	0.045	···	···	
63c	12:15:30.47	00:38:40.20	18.784	0.033	0.063	0.808	0.025	0.202	0.033	0.352	0.034	-0.075	0.030	0.0752	···	
63d	12:15:31.80	00:38:24.72	20.716	0.053	0.063	1.080	0.355	0.816	0.081	0.124	0.085	0.408	0.162	···	···	

Table 2—Continued

Name (1)	α [J2000.0] (2)	δ [J2000.0] (3)	r^* (4)	σ_{r^*} (5)	$A(r^*)$ (6)	u^*-g^* (7)	$\sigma_{u^*-g^*}$ (8)	g^*-r^* (9)	$\sigma_{g^*-r^*}$ (10)	r^*-i^* (11)	$\sigma_{r^*-i^*}$ (12)	i^*-z^* (13)	$\sigma_{i^*-z^*}$ (14)	$z_{\rm sp}$ (15)	$z_{\rm NED}$ (16)	Notes (17)
64a	12:17:04.76	-00:55:07.83	17.330	0.009	0.066	2.343	0.154	1.315	0.014	0.516	0.010	0.335	0.010	0.1977	···	
64b	12:17:05.20	-00:54:52.42	19.032	0.016	0.067	1.900	0.265	1.266	0.030	0.529	0.018	0.329	0.026	···	···	
64c	12:17:04.89	-00:54:39.69	19.424	0.020	0.067	2.404	0.556	1.246	0.040	0.538	0.024	0.410	0.034	···	···	
64d	12:17:04.39	-00:54:47.73	20.030	0.031	0.066	0.767	0.114	0.472	0.043	0.306	0.042	0.261	0.084	···	···	
65a	12:22:39.15	-00:58:48.41	16.401	0.010	0.065	1.554	0.073	1.172	0.014	0.362	0.011	-0.265	0.022	···	···	
65b	12:22:39.33	-00:58:51.13	16.730	0.009	0.065	2.238	0.148	1.300	0.014	0.574	0.010	0.495	0.009	···	0.1753	2MASX J12223930-0058503
65c	12:22:41.23	-00:58:58.78	19.280	0.020	0.064	1.886	0.325	1.171	0.038	0.485	0.024	0.334	0.039	···	···	
65d	12:22:38.20	-00:58:41.36	19.318	0.020	0.065	1.556	0.276	1.246	0.042	0.497	0.024	0.261	0.043	···	···	
66a	12:25:13.71	-00:10:49.95	17.503	0.011	0.075	2.795	0.396	1.578	0.018	0.606	0.012	0.455	0.012	0.2873	···	
66b	12:25:13.31	-00:10:52.61	18.648	0.021	0.075	1.630	0.406	1.605	0.047	0.528	0.025	0.370	0.041	···	···	
66c	12:25:14.70	-00:10:54.54	19.835	0.025	0.075	1.090	0.357	1.657	0.063	0.590	0.030	0.381	0.049	···	···	
66d	12:25:14.34	-00:10:41.29	20.315	0.182	0.075	-0.109	0.609	1.142	0.329	0.086	0.277	0.413	0.610	···	···	
67a	12:31:39.53	-00:34:14.04	16.411	0.010	0.057	2.068	0.114	1.257	0.012	0.460	0.010	0.385	0.010	0.2021	···	
67b	12:31:39.46	-00:33:54.39	18.604	0.017	0.056	1.882	0.283	1.164	0.027	0.393	0.020	0.422	0.032	···	···	
67c	12:31:39.63	-00:33:52.93	19.205	0.017	0.056	1.072	0.116	1.031	0.025	0.456	0.020	0.294	0.031	···	···	
67d	12:31:40.22	-00:34:18.09	19.381	0.023	0.057	1.319	0.223	0.997	0.036	0.546	0.028	0.192	0.051	···	···	
68a	12:33:48.93	-00:09:37.11	16.230	0.009	0.066	2.174	0.060	1.043	0.010	0.484	0.009	0.438	0.006	···	···	
68b	12:33:48.22	-00:09:29.09	17.654	0.010	0.066	1.916	0.066	1.017	0.011	0.436	0.010	0.468	0.009	0.1354	···	
68c	12:33:49.98	-00:09:24.62	18.365	0.012	0.066	2.236	0.161	1.045	0.016	0.438	0.013	0.428	0.016	···	···	
68d	12:33:49.88	-00:09:17.50	18.894	0.018	0.066	1.724	0.202	0.944	0.027	0.392	0.022	0.371	0.040	···	···	
68e	12:33:49.29	-00:09:49.31	19.173	0.015	0.066	1.826	0.170	1.050	0.022	0.419	0.017	0.554	0.023	···	···	
69a	12:36:44.20	-01:00:27.50	17.978	0.016	0.066	1.229	0.134	1.052	0.028	0.444	0.020	0.405	0.031	···	···	
69b	12:36:44.17	-01:00:21.03	18.734	0.014	0.066	2.008	0.263	1.248	0.025	0.502	0.017	0.367	0.024	···	···	
69c	12:36:44.80	-01:00:26.22	18.809	0.018	0.066	0.969	0.089	0.724	0.026	0.400	0.023	0.217	0.043	···	···	
69d	12:36:43.43	-01:00:19.81	20.160	0.074	0.066	1.083	0.664	0.944	0.147	-0.066	0.138	0.478	0.290	···	···	
70a	12:36:51.87	-00:35:15.68	16.601	0.075	0.064	0.896	0.060	0.654	0.076	-0.078	0.077	-0.298	0.075	0.0088	···	
70b	12:36:51.00	-00:34:55.19	18.733	0.015	0.064	2.108	0.374	1.410	0.025	0.477	0.017	0.378	0.025	···	···	
70c	12:36:50.68	-00:34:55.45	18.735	0.016	0.064	2.467	0.596	1.464	0.029	0.538	0.018	0.366	0.026	···	···	
70d	12:36:52.03	-00:35:21.82	19.346	0.023	0.064	0.571	0.037	-0.342	0.024	-0.890	0.066	-0.030	0.237	···	···	
71a	12:37:50.44	-00:18:15.48	17.167	0.008	0.068	1.780	0.080	1.051	0.011	0.428	0.009	0.423	0.012	0.1407	···	
71b	12:37:50.18	-00:17:46.80	18.347	0.013	0.068	1.554	0.116	0.859	0.018	0.428	0.016	0.318	0.028	···	···	
71c	12:37:50.14	-00:17:54.70	19.337	0.021	0.068	1.448	0.220	0.953	0.033	0.396	0.027	0.376	0.053	···	···	
71d	12:37:49.54	-00:17:56.18	19.674	0.028	0.068	1.905	0.462	0.953	0.045	0.414	0.037	0.388	0.072	···	···	
72a	12:43:09.48	-00:47:01.40	16.715	0.008	0.066	2.124	0.095	1.069	0.010	0.429	0.008	0.444	0.009	0.1430	···	
72b	12:43:09.39	-00:46:39.36	18.138	0.010	0.066	2.450	0.200	1.012	0.013	0.449	0.011	0.374	0.014	···	···	
72c	12:43:08.65	-00:46:49.33	18.831	0.014	0.066	2.003	0.247	1.022	0.021	0.418	0.016	0.423	0.025	···	···	
72d	12:43:09.33	-00:46:50.96	19.403	0.020	0.066	1.580	0.323	1.151	0.037	0.432	0.025	0.438	0.042	···	···	
73a	12:43:32.33	-01:07:00.35	17.118	0.007	0.096	2.030	0.085	1.151	0.010	0.442	0.008	0.370	0.009	0.1661	···	
73b	12:43:31.59	-01:07:04.77	18.332	0.012	0.096	2.840	0.498	1.292	0.023	0.509	0.014	0.289	0.022	···	···	

Table 2—Continued

Name (1)	α [J2000.0] (2)	δ [J2000.0] (3)	r^* (4)	σ_{r^*} (5)	$A(r^*)$ (6)	$u^* - g^*$ (7)	$\sigma_{u^*-g^*}$ (8)	$g^* - r^*$ (9)	$\sigma_{g^*-r^*}$ (10)	$r^* - i^*$ (11)	$\sigma_{r^*-i^*}$ (12)	$i^* - z^*$ (13)	$\sigma_{i^*-z^*}$ (14)	$z_{\rm sp}$ (15)	$z_{\rm NED}$ (16)	Notes (17)
73c	12:43:31.05	-01:06:59.54	19.159	0.019	0.096	1.767	0.298	1.029	0.036	0.442	0.025	0.276	0.048	···	···	
73d	12:43:30.88	-01:06:55.00	19.227	0.017	0.096	2.424	0.451	1.078	0.030	0.422	0.021	0.174	0.042	···	···	
74a	12:44:46.21	-01:01:09.40	15.984	0.008	0.091	2.063	0.070	1.079	0.010	0.412	0.008	0.340	0.008	0.1468	···	
74b	12:44:45.96	-01:01:13.30	17.134	0.009	0.091	2.301	0.139	1.233	0.012	0.464	0.009	0.366	0.010	···	···	
74c	12:44:45.73	-01:01:29.57	17.745	0.010	0.091	1.978	0.107	1.006	0.013	0.422	0.011	0.386	0.013	···	···	
74d	12:44:47.93	-01:01:27.74	17.878	0.012	0.091	2.044	0.194	1.128	0.019	0.460	0.014	0.394	0.019	···	···	
74e	12:44:44.51	-01:01:46.80	18.266	0.011	0.091	2.032	0.154	1.068	0.016	0.459	0.012	0.461	0.015	···	···	
74f	12:44:45.02	-01:01:08.11	18.507	0.012	0.091	1.837	0.146	1.057	0.018	0.476	0.014	0.495	0.016	···	···	
74g	12:44:45.10	-01:01:01.80	18.958	0.017	0.091	1.507	0.177	0.997	0.027	0.369	0.021	0.653	0.028	···	···	
75a	12:45:57.83	-00:59:46.94	17.839	0.011	0.070	2.117	0.164	1.167	0.016	0.467	0.012	0.362	0.015	···	···	
75b	12:45:58.25	-00:59:57.16	19.039	0.015	0.070	2.015	0.267	1.121	0.026	0.401	0.019	0.377	0.030	···	···	
75c	12:45:58.89	-00:59:57.74	20.132	0.150	0.070	-0.167	0.435	1.007	0.274	-0.103	0.257	-4.664	1.149	···	···	
75d	12:45:57.77	-00:59:55.63	20.301	0.046	0.070	0.208	0.137	0.666	0.071	0.215	0.069	0.221	0.151	···	···	
76a	12:50:58.83	-00:44:58.91	17.414	0.010	0.068	2.599	0.449	1.609	0.018	0.565	0.011	0.343	0.014	0.2566	···	
76b	12:50:58.63	-00:44:58.07	19.067	0.032	0.068	1.349	0.431	1.151	0.057	0.491	0.040	0.516	0.062	···	···	
76c	12:50:57.81	-00:45:01.13	19.105	0.029	0.068	2.109	0.623	1.004	0.045	0.522	0.035	0.518	0.049	···	···	
76d	12:50:58.38	-00:44:53.48	19.226	0.018	0.068	4.471	1.406	1.450	0.035	0.531	0.021	0.390	0.031	···	···	
76e	12:50:58.82	-00:44:44.08	19.300	0.021	0.068	2.516	0.946	1.390	0.042	0.492	0.026	0.325	0.044	···	···	
77a	12:53:22.35	-00:25:42.73	15.315	0.008	0.070	1.496	0.020	0.775	0.008	0.372	0.008	0.345	0.005	···	0.0471	CGCG015-030NED
77b	12:53:23.51	-00:25:22.56	15.750	0.024	0.070	1.388	0.054	0.787	0.025	-0.099	0.025	0.083	0.028	···	···	
77c	12:53:23.85	-00:25:23.49	16.814	0.013	0.070	2.069	0.082	0.506	0.014	0.678	0.013	0.411	0.011	0.0478	0.0478	CGCG015-030NED
77d	12:53:23.57	-00:25:30.26	16.817	0.019	0.070	0.982	0.064	0.952	0.022	-0.425	0.025	-0.253	0.072	0.0471	···	
77e	12:53:24.16	-00:25:12.80	17.403	0.025	0.070	0.862	0.069	0.657	0.029	-0.584	0.039	-1.199	0.308	···	···	
78a	12:54:37.84	-00:11:04.46	15.256	0.006	0.074	1.957	0.022	0.900	0.007	0.417	0.007	0.368	0.004	0.0826	0.0826	2MASX J12543782-0011048
78b	12:54:35.06	-00:10:55.59	17.091	0.007	0.075	1.884	0.046	0.933	0.008	0.435	0.008	0.374	0.007	···	0.0819	2MASX J12543503-0010558
78c	12:54:35.55	-00:10:58.61	17.827	0.011	0.075	1.643	0.098	0.896	0.016	0.376	0.013	0.254	0.024	0.0818	···	
78d	12:54:34.79	-00:10:22.60	17.896	0.011	0.075	1.701	0.103	0.853	0.015	0.360	0.013	0.318	0.023	···	···	
79a	12:55:09.54	-01:05:27.99	17.543	0.009	0.053	1.463	0.093	1.522	0.016	0.193	0.010	0.462	0.013	0.1229	···	
79b	12:55:09.20	-01:05:30.48	17.724	0.011	0.053	-2.367	0.359	4.651	0.352	0.311	0.013	0.415	0.018	···	···	
79c	12:55:09.42	-01:05:29.72	17.894	0.010	0.053	2.540	0.132	0.550	0.012	0.571	0.011	0.045	0.016	···	···	
79d	12:55:09.33	-01:05:12.19	19.385	0.025	0.053	1.177	0.146	0.596	0.035	0.407	0.032	0.349	0.054	···	···	
79e	12:55:07.83	-01:05:30.36	20.251	0.057	0.053	-0.105	0.197	1.039	0.114	0.293	0.082	0.177	0.178	···	···	
80a	12:56:17.15	-00:38:22.34	17.418	0.009	0.055	1.723	0.072	0.892	0.011	0.385	0.010	0.326	0.012	0.1349	···	
80b	12:56:16.52	-00:38:23.96	19.447	0.024	0.055	2.206	1.089	1.718	0.066	0.645	0.029	0.353	0.044	···	···	
80c	12:56:16.35	-00:38:17.87	20.145	0.044	0.055	1.186	0.483	1.075	0.078	0.552	0.055	0.414	0.091	···	···	
80d	12:56:17.27	-00:38:27.61	20.173	0.039	0.055	3.398	1.075	2.179	0.165	0.668	0.047	0.611	0.060	···	···	
81a	12:57:59.93	-01:05:25.87	17.091	0.011	0.061	2.023	0.166	1.249	0.018	0.462	0.012	0.362	0.016	···	···	
81b	12:58:00.07	-01:05:35.18	17.970	0.013	0.061	2.007	0.259	1.280	0.027	0.546	0.016	0.379	0.022	···	···	
81c	12:58:00.27	-01:05:38.65	19.322	0.021	0.061	1.893	0.506	1.472	0.056	0.592	0.025	0.328	0.040	···	···	
81d	12:58:00.45	-01:05:59.65	19.348	0.028	0.061	1.151	0.201	0.799	0.048	0.341	0.038	0.123	0.086	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
81e	12:57:58.75	-01:05:43.90	19.661	0.026	0.061	1.434	0.277	0.951	0.049	0.374	0.034	0.394	0.061	···	···	
82a	13:05:41.28	00:23:53.46	17.247	0.011	0.056	2.284	0.260	1.410	0.017	0.609	0.012	0.352	0.017	0.2232	···	
82b	13:05:41.98	00:23:40.69	18.738	0.022	0.056	1.836	0.474	1.371	0.042	0.546	0.026	0.289	0.056	···	···	
82c	13:05:40.89	00:23:58.66	18.802	0.016	0.056	1.417	0.139	0.853	0.022	0.514	0.019	0.172	0.042	···	···	
82d	13:05:41.71	00:24:04.95	19.609	0.029	0.056	1.496	0.347	0.913	0.046	0.420	0.039	0.193	0.101	···	···	
83a	13:06:51.81	-00:33:14.30	16.938	0.007	0.052	1.874	0.066	1.060	0.009	0.472	0.008	0.357	0.008	0.1283	0.1279	2MASX J13065177-0033141
83b	13:06:50.98	-00:33:39.49	18.159	0.015	0.052	1.677	0.206	1.032	0.023	0.532	0.018	0.350	0.029	···	···	
83c	13:06:50.45	-00:33:40.76	19.524	0.042	0.052	1.899	0.778	0.925	0.069	0.536	0.055	0.446	0.091	···	···	
83d	13:06:50.32	-00:33:35.88	19.802	0.032	0.052	1.497	0.434	0.981	0.054	0.391	0.044	0.228	0.093	···	···	
84a	13:10:38.19	-00:39:24.43	15.172	0.007	0.066	2.077	0.030	0.987	0.007	0.414	0.007	0.381	0.003	0.0864	0.0864	2MASX J13103821-0039242
84b	13:10:42.28	-00:39:52.36	16.237	0.010	0.067	1.211	0.025	0.521	0.011	0.391	0.011	0.235	0.011	0.0762	···	
84c	13:10:42.62	-00:40:00.17	16.579	0.008	0.067	1.857	0.051	1.036	0.009	0.455	0.008	0.383	0.006	0.0805	···	
84d	13:10:41.73	-00:40:10.19	16.692	0.007	0.067	2.038	0.044	0.983	0.008	0.443	0.007	0.383	0.004	···	···	
84e	13:10:37.20	-00:39:55.54	18.087	0.011	0.066	1.897	0.130	0.893	0.014	0.358	0.012	0.308	0.019	···	···	
85a	13:12:05.54	00:32:19.40	15.300	0.007	0.085	0.996	0.021	0.598	0.008	0.144	0.008	0.128	0.016	···	···	
85b	13:12:07.14	00:32:01.09	15.684	0.011	0.086	1.069	0.029	0.682	0.012	0.211	0.012	0.184	0.017	0.1214	···	
85c	13:12:03.50	00:32:49.55	16.873	0.008	0.085	1.780	0.049	0.944	0.009	0.413	0.009	0.352	0.008	0.1203	···	
85d	13:12:05.07	00:31:40.65	17.657	0.020	0.085	1.040	0.128	0.877	0.030	0.334	0.027	0.253	0.054	···	···	
86a	13:12:25.88	-01:06:13.07	16.508	0.007	0.092	1.973	0.042	0.904	0.008	0.400	0.007	0.347	0.006	···	0.1087	APMUKS(BJ) B130952.04-00 NED02
86b	13:12:26.40	-01:06:20.04	16.943	0.008	0.093	1.838	0.063	0.946	0.010	0.421	0.009	0.447	0.009	···	0.1095	PMUKS(BJ) B130952.04-00 NED01
86c	13:12:23.62	-01:06:18.03	17.147	0.008	0.093	2.052	0.068	0.964	0.009	0.418	0.008	0.390	0.008	0.1091	···	
86d	13:12:23.63	-01:06:05.78	18.516	0.018	0.092	1.021	0.082	0.534	0.025	0.291	0.024	0.163	0.051	···	···	
87a	13:13:04.19	-01:13:31.40	16.066	0.009	0.069	1.388	0.044	0.794	0.011	0.352	0.010	0.088	0.016	···	···	
87b	13:13:03.95	-01:13:22.15	16.803	0.007	0.069	1.997	0.062	1.031	0.009	0.452	0.008	0.423	0.007	···	···	
87c	13:13:00.75	-01:13:24.01	17.859	0.010	0.072	1.932	0.148	1.095	0.016	0.478	0.012	0.406	0.017	···	···	
87d	13:13:03.60	-01:13:37.78	18.913	0.015	0.069	1.505	0.137	0.775	0.023	0.461	0.019	0.290	0.033	···	···	
88a	13:15:01.99	-01:04:06.89	17.202	0.008	0.081	2.031	0.117	1.441	0.012	0.480	0.009	0.295	0.009	···	···	
88b	13:15:02.57	-01:04:04.10	17.688	0.010	0.081	1.633	0.206	1.900	0.025	0.490	0.011	0.293	0.015	0.2148	···	
88c	13:15:02.25	-01:04:10.78	19.017	0.027	0.081	0.767	0.207	1.210	0.058	0.299	0.039	0.549	0.062	···	···	
88d	13:15:02.30	-01:04:00.91	19.043	0.016	0.081	0.786	0.352	2.479	0.086	0.327	0.021	0.235	0.039	···	···	
89a	13:18:16.20	00:19:39.78	16.237	0.006	0.082	1.984	0.033	0.928	0.006	0.405	0.006	0.328	0.006	0.0816	···	
89b	13:18:15.82	00:19:35.94	17.103	0.013	0.082	0.958	0.049	0.521	0.016	0.260	0.016	0.110	0.045	···	···	
89c	13:18:14.65	00:19:35.99	17.664	0.009	0.083	1.169	0.035	0.501	0.011	0.284	0.011	0.206	0.024	···	···	
89d	13:18:15.15	00:19:28.17	18.610	0.014	0.083	1.621	0.151	0.824	0.020	0.317	0.018	0.345	0.042	···	···	
90a	13:18:44.74	-00:44:01.60	16.029	0.008	0.076	2.051	0.045	0.929	0.008	0.446	0.008	0.421	0.005	0.0859	···	
90b	13:18:44.07	-00:43:55.98	18.335	0.011	0.076	1.743	0.101	0.904	0.013	0.404	0.012	0.545	0.013	···	···	
90c	13:18:45.06	-00:44:07.36	18.386	0.021	0.077	0.836	0.144	1.017	0.034	0.403	0.027	0.301	0.052	···	···	
90d	13:18:45.55	-00:43:25.95	18.548	0.013	0.075	1.410	0.122	0.832	0.017	0.401	0.015	0.386	0.027	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
91a	13:18:46.54	-00:45:27.13	17.233	0.008	0.079	2.093	0.073	0.949	0.009	0.448	0.009	0.441	0.007	0.0870	···	
91b	13:18:46.47	-00:45:35.43	17.854	0.011	0.079	1.666	0.102	0.906	0.013	0.393	0.012	0.414	0.016	···	···	
91c	13:18:47.73	-00:45:27.31	19.566	0.023	0.079	1.696	0.337	0.877	0.034	0.406	0.029	0.423	0.053	···	···	
91d	13:18:47.29	-00:45:24.93	20.020	0.048	0.079	0.991	0.977	1.826	0.151	0.587	0.061	0.523	0.100	···	···	
92a	13:19:34.20	-01:05:20.06	15.692	0.006	0.072	1.931	0.024	0.921	0.007	0.472	0.007	0.324	0.003	···	···	
92b	13:19:34.04	-01:05:51.25	16.400	0.009	0.073	1.768	0.072	0.887	0.012	0.383	0.011	0.273	0.014	0.0802	···	
92c	13:19:31.48	-01:06:11.74	17.797	0.010	0.073	1.516	0.069	0.843	0.013	0.442	0.012	0.279	0.016	···	···	
92d	13:19:31.98	-01:06:05.29	18.459	0.012	0.073	0.980	0.056	0.752	0.016	0.425	0.014	0.216	0.023	···	···	
93a	13:24:39.79	00:22:15.96	16.152	0.006	0.066	2.104	0.047	1.019	0.007	0.447	0.007	0.380	0.006	0.1080	···	
93b	13:24:38.83	00:22:12.68	18.266	0.015	0.066	1.120	0.078	0.634	0.018	0.486	0.018	0.379	0.036	···	···	
93c	13:24:38.32	00:21:51.72	18.794	0.012	0.065	2.036	0.193	1.029	0.016	0.463	0.014	0.407	0.025	···	···	
93d	13:24:38.72	00:22:03.13	19.142	0.017	0.066	1.574	0.200	0.946	0.024	0.354	0.021	0.452	0.047	···	···	
94a	13:24:49.00	-00:00:35.68	16.556	0.006	0.065	2.033	0.045	1.011	0.007	0.495	0.007	0.411	0.006	0.0816	···	
94b	13:24:48.74	-00:00:54.77	17.450	0.009	0.065	1.880	0.084	0.908	0.011	0.381	0.010	0.326	0.016	···	···	
94c	13:24:50.01	-00:00:53.71	19.153	0.016	0.065	2.062	0.263	0.875	0.022	0.370	0.020	0.297	0.043	···	···	
94d	13:24:50.17	-00:00:31.12	19.404	0.020	0.065	1.783	0.259	0.866	0.029	0.360	0.026	0.317	0.057	···	···	
95a	13:25:07.78	-00:38:23.69	16.967	0.009	0.084	1.898	0.080	1.081	0.010	0.536	0.009	0.433	0.008	0.0849	···	
95b	13:25:09.33	-00:38:26.99	18.346	0.011	0.084	1.740	0.101	0.870	0.014	0.427	0.013	0.338	0.016	···	···	
95c	13:25:08.60	-00:38:19.90	19.010	0.144	0.084	-0.618	0.339	1.210	0.244	0.297	0.189	-0.045	0.492	···	···	
95d	13:25:08.89	-00:38:42.30	19.647	0.027	0.084	1.096	0.138	0.433	0.033	0.314	0.036	0.088	0.085	···	···	
96a	13:26:34.98	00:26:44.27	17.856	0.011	0.071	1.852	0.169	1.400	0.017	0.522	0.012	0.331	0.016	···	···	
96b	13:26:34.55	00:26:37.96	20.203	0.036	0.071	1.631	0.635	1.303	0.075	0.536	0.047	0.416	0.076	···	···	
96c	13:26:34.02	00:26:50.54	20.485	0.056	0.071	1.030	0.355	0.737	0.083	0.253	0.084	0.322	0.170	···	···	
96d	13:26:34.17	00:26:46.83	20.704	0.081	0.071	4.305	0.959	1.150	0.162	0.633	0.106	0.244	0.199	···	···	
97a	13:28:20.16	00:26:18.66	17.285	0.011	0.077	2.531	0.280	1.462	0.016	0.592	0.012	0.407	0.012	···	···	
97b	13:28:19.00	00:26:11.87	19.328	0.017	0.077	2.615	0.627	1.410	0.030	0.666	0.020	0.343	0.025	···	···	
97c	13:28:19.69	00:26:17.54	19.578	0.027	0.077	2.234	0.794	1.297	0.052	0.508	0.036	0.496	0.053	···	···	
97d	13:28:19.28	00:26:09.73	20.147	0.031	0.077	2.038	0.776	1.322	0.062	0.628	0.040	0.267	0.066	···	···	
98a	13:29:06.66	00:25:36.30	17.860	0.010	0.077	0.998	0.028	0.424	0.011	0.288	0.012	0.128	0.020	···	···	
98b	13:29:06.38	00:25:29.16	17.985	0.011	0.077	2.083	0.199	1.374	0.016	0.477	0.012	0.366	0.015	···	···	
98c	13:29:06.30	00:25:40.53	19.672	0.033	0.077	0.856	0.321	1.361	0.069	0.651	0.042	0.449	0.059	···	···	
98d	13:29:05.40	00:25:37.74	20.324	0.039	0.077	1.802	0.502	0.757	0.057	0.428	0.054	0.193	0.107	···	···	
99a	13:34:36.92	-01:03:41.08	16.928	0.007	0.087	1.374	0.022	0.692	0.008	0.406	0.008	0.285	0.006	···	0.0768	2dFGRSN267Z146
99b	13:34:35.84	-01:03:10.61	17.680	0.012	0.087	1.058	0.049	0.688	0.015	0.346	0.014	0.218	0.023	···	···	
99c	13:34:37.23	-01:03:27.12	19.791	0.068	0.087	3.261	3.127	2.003	0.256	0.466	0.085	0.263	0.158	···	···	
99d	13:34:36.61	-01:03:23.53	19.867	0.031	0.087	1.108	0.163	0.351	0.041	0.265	0.044	0.042	0.115	···	···	
100a	13:35:07.92	00:28:18.30	15.533	0.010	0.068	1.253	0.038	0.673	0.011	0.319	0.011	0.136	0.017	···	0.0869	2dFGRSN334Z162
100b	13:35:08.02	00:28:38.40	17.015	0.008	0.068	1.145	0.022	0.571	0.009	0.489	0.009	0.200	0.009	···	···	
100c	13:35:05.78	00:28:25.48	17.927	0.010	0.069	1.831	0.097	0.807	0.012	0.453	0.012	0.264	0.016	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
100d	13:35:04.60	00:28:04.00	18.074	0.012	0.069	1.579	0.125	0.791	0.017	0.472	0.016	0.189	0.028	···	···	
101a	13:38:05.29	00:57:47.09	17.406	0.010	0.067	1.620	0.092	1.077	0.013	0.450	0.011	0.327	0.015	···	0.1430	2dFGRS N402Z076
101b	13:38:04.47	00:58:01.07	18.310	0.033	0.067	0.952	0.214	1.008	0.048	0.194	0.045	0.389	0.082	···	···	
101c	13:38:03.81	00:57:59.40	19.594	0.024	0.067	2.268	1.063	1.826	0.066	0.565	0.030	0.398	0.050	···	···	
101d	13:38:04.19	00:58:07.01	20.038	0.040	0.067	1.244	0.340	0.799	0.059	0.366	0.056	0.422	0.103	···	···	
102a	13:38:42.68	-00:44:22.02	17.055	0.011	0.089	2.165	0.333	1.803	0.022	0.570	0.012	0.409	0.013	0.3462	···	
102b	13:38:41.85	-00:44:35.82	18.537	0.018	0.089	1.925	0.798	2.142	0.060	0.670	0.021	0.050	0.036	···	···	
102c	13:38:41.55	-00:44:36.52	18.776	0.018	0.089	1.680	0.765	2.364	0.072	0.562	0.021	0.007	0.041	···	···	
102d	13:38:42.12	-00:44:45.93	19.752	0.028	0.088	1.445	0.674	1.807	0.080	0.618	0.034	0.421	0.049	···	···	
103a	13:38:44.08	00:16:33.82	17.712	0.009	0.080	1.280	0.046	0.767	0.011	0.372	0.010	0.332	0.019	···	0.1290	2dFGRSN335Z192
103b	13:38:44.81	00:16:21.54	17.796	0.025	0.080	1.688	0.216	0.632	0.031	0.123	0.034	0.190	0.096	···	···	
103c	13:38:44.56	00:16:48.09	20.109	0.256	0.080	0.188	0.877	1.200	0.379	0.435	0.301	0.867	0.383	···	···	
103d	13:38:45.09	00:16:19.58	20.416	0.041	0.080	1.154	0.225	0.479	0.052	0.400	0.054	0.420	0.115	···	···	
104a	13:39:39.20	-00:01:02.01	17.989	0.010	0.073	2.095	0.201	1.362	0.016	0.480	0.012	0.304	0.018	···	···	
104b	13:39:38.81	-00:01:13.28	18.961	0.031	0.073	2.888	1.502	1.231	0.056	0.621	0.038	0.335	0.067	···	···	
104c	13:39:38.69	-00:01:03.44	20.183	0.037	0.073	2.397	1.103	1.288	0.072	0.435	0.048	0.138	0.116	···	···	
104d	13:39:38.88	-00:00:51.07	20.691	0.059	0.073	0.811	0.376	0.921	0.094	0.341	0.082	0.324	0.183	···	···	
105a	13:40:29.51	-01:12:13.56	17.098	0.009	0.073	1.802	0.042	1.026	0.010	0.437	0.009	0.339	0.006	···	···	
105b	13:40:30.07	-01:12:17.48	17.273	0.010	0.073	0.908	0.017	0.507	0.010	0.402	0.010	0.162	0.011	···	···	
105c	13:40:28.27	-01:11:54.68	17.370	0.010	0.073	1.961	0.073	1.017	0.011	0.430	0.010	0.345	0.009	···	···	
105d	13:40:27.75	-01:11:56.59	19.667	0.040	0.072	0.591	0.316	1.345	0.100	0.637	0.050	0.451	0.076	···	···	
106a	13:40:58.27	00:45:28.10	17.454	0.009	0.079	1.673	0.121	1.407	0.014	0.532	0.011	0.348	0.013	0.2417	···	
106b	13:40:58.13	00:45:31.34	18.020	0.014	0.079	1.864	0.266	1.341	0.025	0.448	0.018	0.237	0.031	···	0.0902	2dFGRSN336Z062
106c	13:40:59.05	00:45:44.80	18.990	0.016	0.079	0.900	0.064	0.523	0.019	0.289	0.021	0.224	0.042	···	···	
106d	13:40:58.39	00:45:18.45	20.113	0.028	0.079	1.244	0.368	1.373	0.055	0.666	0.034	0.332	0.054	···	···	
107a	13:41:06.68	-00:01:39.22	17.635	0.008	0.080	1.955	0.066	0.915	0.009	0.405	0.009	0.341	0.010	0.1003	···	
107b	13:41:06.15	-00:01:47.93	18.459	0.013	0.080	1.759	0.269	1.488	0.025	0.580	0.015	0.405	0.023	···	···	
107c	13:41:06.29	-00:01:31.52	19.071	0.023	0.080	1.458	0.200	0.713	0.031	0.386	0.030	0.252	0.063	···	···	
107d	13:41:06.64	-00:01:22.35	19.835	0.040	0.080	0.710	0.245	1.017	0.066	0.390	0.054	0.271	0.118	···	···	
108a	13:41:25.48	-01:10:29.66	15.334	0.008	0.075	1.720	0.028	0.859	0.009	0.442	0.009	0.289	0.005	···	···	
108b	13:41:27.13	-01:09:56.12	15.930	0.008	0.075	1.975	0.024	0.908	0.008	0.456	0.008	0.332	0.003	0.0888	···	
108c	13:41:28.09	-01:10:59.94	17.428	0.011	0.075	1.594	0.079	1.036	0.014	0.531	0.011	0.323	0.013	···	···	
108d	13:41:26.65	-01:09:42.75	17.934	0.012	0.075	1.910	0.154	1.107	0.018	0.562	0.013	0.370	0.016	···	···	
109a	13:42:29.65	-00:51:29.30	17.724	0.010	0.078	2.236	0.193	1.212	0.018	0.540	0.012	0.312	0.016	···	···	
109b	13:42:30.71	-00:51:25.50	19.267	0.020	0.078	1.127	0.151	1.003	0.034	0.288	0.027	0.403	0.049	···	···	
109c	13:42:30.81	-00:51:35.18	19.578	0.023	0.079	3.268	1.043	1.020	0.041	0.523	0.029	0.279	0.052	···	···	
109d	13:42:30.05	-00:51:40.51	19.809	0.026	0.078	3.909	1.024	1.591	0.071	0.581	0.032	0.338	0.054	···	···	
109e	13:42:30.16	-00:51:18.40	20.509	0.046	0.078	0.937	0.341	0.986	0.089	0.435	0.064	0.100	0.149	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
110a	13:42:29.88	00:21:38.19	16.200	0.012	0.082	1.352	0.072	0.856	0.015	0.331	0.014	0.413	0.025	···	···	
110b	13:42:31.11	00:21:43.91	16.956	0.009	0.082	2.155	0.182	1.484	0.013	0.521	0.010	0.354	0.015	0.2434	0.2434	2dFGRSN336Z227
110c	13:42:29.92	00:20:54.72	18.599	0.017	0.081	1.635	0.281	1.308	0.030	0.513	0.021	0.373	0.042	···	···	
110d	13:42:30.95	00:21:24.65	18.988	0.016	0.082	1.667	0.265	1.318	0.027	0.465	0.019	0.341	0.041	···	···	
111a	13:42:43.36	00:45:56.41	15.528	0.012	0.082	1.410	0.065	0.829	0.015	0.154	0.015	0.125	0.027	0.0732	0.0733	2dFGRSN335Z003
111b	13:42:45.27	00:45:21.27	18.187	0.012	0.083	1.809	0.144	1.061	0.017	0.448	0.014	0.337	0.021	···	···	
111c	13:42:42.47	00:46:02.24	18.304	0.014	0.082	1.389	0.094	0.720	0.018	0.393	0.018	0.259	0.032	···	···	
111d	13:42:43.25	00:45:52.36	18.526	0.021	0.082	2.298	0.619	1.343	0.041	0.741	0.025	0.192	0.040	···	···	
112a	13:45:06.50	-00:10:14.63	17.956	0.011	0.069	1.641	0.086	0.877	0.014	0.395	0.013	0.341	0.019	···	···	
112b	13:45:06.57	-00:10:25.39	18.845	0.019	0.069	5.013	1.575	1.694	0.047	0.600	0.023	0.437	0.036	···	···	
112c	13:45:07.10	-00:10:11.62	20.193	0.035	0.069	0.831	0.510	1.814	0.109	0.571	0.045	0.513	0.075	···	···	
112d	13:45:07.38	-00:10:09.38	20.726	0.063	0.069	0.692	0.443	1.110	0.118	0.359	0.089	0.521	0.168	···	···	
113a	13:45:52.34	-00:01:16.42	17.597	0.009	0.074	0.992	0.019	0.424	0.009	0.339	0.010	0.111	0.015	0.0908	···	
113b	13:45:51.36	-00:01:22.94	19.615	0.024	0.074	2.225	0.705	1.319	0.045	0.467	0.030	0.270	0.063	···	···	
113c	13:45:52.47	-00:01:08.65	20.072	0.031	0.074	1.071	0.280	1.042	0.052	0.404	0.041	0.497	0.076	···	···	
113d	13:45:51.89	-00:01:21.60	20.143	0.042	0.074	0.570	0.190	0.790	0.061	0.168	0.062	0.631	0.118	···	···	
114a	13:49:56.20	-00:27:56.57	17.642	0.010	0.082	2.089	0.269	1.582	0.018	0.559	0.011	0.403	0.014	0.2602	···	
114b	13:49:56.14	-00:28:19.89	18.748	0.019	0.082	2.342	0.696	1.419	0.036	0.516	0.023	0.126	0.046	···	···	
114c	13:49:55.77	-00:28:20.12	19.789	0.030	0.082	1.089	0.193	0.628	0.040	0.257	0.042	0.004	0.114	···	···	
114d	13:49:56.29	-00:28:19.16	20.379	0.050	0.082	0.600	0.541	1.635	0.128	0.767	0.060	0.410	0.088	···	···	
115a	13:50:51.64	-00:31:05.89	16.787	0.007	0.097	1.651	0.040	0.876	0.008	0.450	0.008	0.371	0.007	···	···	
115b	13:50:49.89	-00:30:58.02	17.467	0.011	0.097	1.458	0.079	0.983	0.013	0.468	0.013	0.375	0.015	0.1504	···	
115c	13:50:50.26	-00:31:02.61	18.264	0.045	0.097	1.218	0.204	0.331	0.052	-0.230	0.076	1.396	0.089	···	···	
115d	13:50:50.46	-00:31:01.68	19.323	0.024	0.097	2.303	0.900	1.374	0.048	0.488	0.031	-0.183	0.086	···	···	
116a	13:51:33.13	00:44:18.26	17.795	0.013	0.088	1.335	0.068	0.652	0.015	0.405	0.016	0.252	0.025	···	···	
116b	13:51:31.55	00:44:11.80	17.921	0.008	0.088	2.463	0.201	1.588	0.012	0.514	0.009	0.395	0.009	···	0.0881	2dFGRSN405Z061
116c	13:51:32.46	00:44:11.82	18.466	0.014	0.088	0.938	0.043	0.257	0.016	0.178	0.020	0.133	0.044	···	···	
116d	13:51:31.87	00:44:19.28	20.045	0.025	0.088	1.016	0.101	0.258	0.029	0.247	0.038	0.046	0.094	···	···	
117a	13:52:35.53	-01:01:42.59	17.356	0.008	0.127	1.462	0.058	1.014	0.011	0.424	0.010	0.309	0.013	0.1412	···	
117b	13:52:35.42	-01:01:34.71	17.947	0.010	0.126	1.740	0.101	1.125	0.014	0.416	0.011	0.137	0.018	···	···	
117c	13:52:35.74	-01:01:47.00	18.850	0.014	0.127	1.513	0.121	0.900	0.020	0.356	0.018	0.240	0.032	···	···	
117d	13:52:34.65	-01:01:52.95	19.659	0.029	0.127	1.740	0.705	1.591	0.076	0.471	0.038	0.307	0.069	···	···	
118a	13:53:50.83	00:11:01.85	17.708	0.012	0.111	2.043	0.220	1.436	0.018	0.554	0.013	0.370	0.019	···	···	
118b	13:53:50.25	00:10:41.44	18.799	0.019	0.111	0.992	0.086	0.653	0.024	0.448	0.023	0.222	0.052	···	···	
118c	13:53:50.11	00:10:46.44	19.326	0.023	0.111	1.724	0.408	1.268	0.041	0.493	0.028	0.206	0.067	···	···	
118d	13:53:51.21	00:10:54.16	20.665	0.052	0.111	0.376	0.194	0.645	0.074	0.017	0.085	0.445	0.227	···	···	
119a	13:55:57.84	00:15:26.30	17.359	0.015	0.108	1.388	0.075	0.645	0.018	0.388	0.018	0.138	0.036	···	···	
119b	13:55:58.09	00:15:30.64	17.858	0.012	0.108	1.451	0.094	1.083	0.015	0.459	0.013	0.337	0.023	0.1333	···	
119c	13:55:57.36	00:15:10.46	19.398	0.019	0.108	1.186	0.128	0.771	0.025	0.389	0.024	0.223	0.061	···	···	

Table 2—Continued

Name (1)	α [J2000.0] (2)	δ [J2000.0] (3)	r^* (4)	σ_{r^*} (5)	$A(r^*)$ (6)	$u^* - g^*$ (7)	$\sigma_{u^*-g^*}$ (8)	$g^* - r^*$ (9)	$\sigma_{g^*-r^*}$ (10)	$r^* - i^*$ (11)	$\sigma_{r^*-i^*}$ (12)	$i^* - z^*$ (13)	$\sigma_{i^*-z^*}$ (14)	$z_{\rm sp}$ (15)	$z_{\rm NED}$ (16)	Notes (17)
119d	13:55:58.88	00:15:25.41	19.739	0.030	0.108	1.013	0.157	0.543	0.039	0.372	0.041	0.105	0.123	···	···	
119e	13:55:57.26	00:15:34.54	20.037	0.027	0.108	0.944	0.150	0.695	0.037	0.385	0.036	0.301	0.087	···	···	
120a	14:05:08.08	-00:09:02.15	17.176	0.011	0.119	1.943	0.232	1.610	0.020	0.510	0.013	0.396	0.018	0.2427	0.2427	2MASX J14050810-0009015
120b	14:05:08.59	-00:08:56.83	19.784	0.026	0.119	1.336	0.671	2.139	0.095	0.482	0.032	0.212	0.069	···	···	
120c	14:05:08.38	-00:08:58.91	20.025	0.039	0.119	1.715	0.667	1.212	0.073	0.823	0.045	-0.113	0.109	···	···	
120d	14:05:08.20	-00:08:54.21	20.117	0.041	0.118	1.887	0.635	0.878	0.064	0.672	0.051	0.250	0.101	···	···	
121a	14:07:52.93	-00:29:19.07	17.610	0.011	0.107	2.033	0.247	1.504	0.018	0.474	0.012	0.404	0.016	···	···	
121b	14:07:52.47	-00:29:25.84	17.989	0.015	0.108	2.497	0.587	1.434	0.027	0.533	0.017	0.422	0.026	···	···	
121c	14:07:51.80	-00:29:24.08	18.889	0.016	0.108	2.358	0.632	1.483	0.032	0.502	0.020	0.390	0.032	···	···	
121d	14:07:51.51	-00:29:16.15	20.018	0.042	0.108	0.398	0.328	1.408	0.093	0.353	0.060	0.374	0.118	···	···	
122a	14:10:54.95	00:59:08.92	17.536	0.009	0.091	2.138	0.182	1.182	0.013	0.492	0.010	0.368	0.015	0.1803	···	
122b	14:10:54.77	00:58:57.22	18.476	0.017	0.091	1.707	0.355	1.351	0.033	0.601	0.020	0.548	0.028	···	···	
122c	14:10:54.41	00:59:06.29	20.240	0.041	0.091	1.005	0.321	0.768	0.063	0.371	0.058	0.213	0.135	···	···	
122d	14:10:54.96	00:59:15.08	20.277	0.036	0.091	0.424	0.133	0.554	0.050	0.336	0.051	-0.138	0.159	···	···	
123a	14:12:05.86	-01:03:21.74	17.138	0.011	0.158	2.453	0.307	1.228	0.021	0.447	0.013	0.381	0.019	0.1822	···	
123b	14:12:06.90	-01:03:26.11	18.884	0.019	0.159	1.060	0.129	0.831	0.033	0.440	0.024	0.108	0.052	···	···	
123c	14:12:05.50	-01:03:23.89	19.026	0.049	0.158	0.808	0.300	0.857	0.093	0.349	0.068	-0.422	0.252	···	···	
123d	14:12:05.78	-01:03:36.80	19.506	0.019	0.159	2.292	0.581	1.285	0.046	0.439	0.023	0.466	0.036	···	···	
124a	14:14:00.24	00:23:35.34	17.167	0.009	0.112	2.245	0.169	1.285	0.012	0.573	0.010	0.362	0.014	0.1892	···	
124b	14:13:58.89	00:23:39.08	18.956	0.031	0.112	1.226	0.221	0.702	0.041	0.396	0.042	-0.141	0.148	···	···	
124c	14:13:59.49	00:23:53.53	19.030	0.017	0.111	2.197	0.396	1.212	0.026	0.426	0.021	0.317	0.044	···	···	
124d	14:14:00.17	00:23:52.94	19.552	0.020	0.111	1.067	0.110	0.694	0.025	0.401	0.026	0.043	0.070	···	···	
125a	14:14:06.22	00:21:36.96	17.929	0.010	0.112	1.021	0.037	0.541	0.012	0.354	0.012	0.165	0.027	···	···	
125b	14:14:07.18	00:21:22.29	19.316	0.017	0.112	1.584	0.301	1.454	0.032	0.545	0.021	0.317	0.041	···	···	
125c	14:14:06.32	00:21:24.36	19.647	0.023	0.112	2.660	1.079	1.603	0.051	0.665	0.028	0.373	0.050	···	···	
125d	14:14:06.52	00:21:36.05	19.806	0.027	0.112	3.238	1.371	1.690	0.069	0.674	0.034	0.399	0.059	···	···	
126a	14:15:03.15	-00:22:42.89	17.233	0.008	0.117	2.120	0.115	1.044	0.010	0.432	0.009	0.401	0.011	0.1428	···	
126b	14:15:03.62	-00:22:31.57	18.080	0.011	0.117	2.048	0.195	1.068	0.016	0.424	0.012	0.389	0.020	···	···	
126c	14:15:04.44	-00:22:20.89	18.522	0.018	0.117	1.806	0.287	0.871	0.029	0.400	0.024	0.358	0.047	···	···	
126d	14:15:04.90	-00:22:40.98	19.564	0.027	0.116	1.998	0.520	0.862	0.044	0.289	0.038	0.442	0.076	···	···	
127a	14:15:55.07	00:16:06.24	17.399	0.008	0.109	1.796	0.074	1.108	0.010	0.406	0.009	0.378	0.013	0.1260	···	
127b	14:15:54.09	00:15:50.18	18.374	0.010	0.109	2.134	0.162	1.088	0.014	0.444	0.012	0.421	0.019	···	···	
127c	14:15:53.32	00:16:04.37	20.228	0.042	0.110	1.763	0.640	0.944	0.067	0.367	0.058	0.262	0.155	···	···	
127d	14:15:55.04	00:16:13.06	20.341	0.042	0.109	1.741	0.544	0.797	0.061	0.549	0.053	0.439	0.111	···	···	
128a	14:22:03.76	-00:57:25.65	15.924	0.007	0.129	1.874	0.041	0.996	0.008	0.448	0.007	0.342	0.006	0.1030	···	
128b	14:22:02.50	-00:57:17.01	16.378	0.008	0.129	1.727	0.055	1.010	0.010	0.438	0.008	0.358	0.009	···	···	
128c	14:22:02.64	-00:57:57.00	16.655	0.008	0.128	1.581	0.037	0.840	0.009	0.498	0.009	0.319	0.008	···	···	
128d	14:22:01.97	-00:58:16.51	18.799	0.017	0.128	1.774	0.227	0.981	0.028	0.275	0.023	0.244	0.051	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
129a	14:24:16.53	-00:08:57.80	15.825	0.009	0.102	1.030	0.037	0.833	0.011	0.174	0.011	0.197	0.023	0.1736	0.1732	2dFGRSN344Z15
129b	14:24:18.75	-00:08:58.27	17.324	0.008	0.101	2.000	0.081	1.093	0.010	0.445	0.009	0.375	0.010	···	···	
129c	14:24:18.18	-00:08:45.06	18.584	0.021	0.101	2.108	0.728	1.658	0.051	0.669	0.025	0.382	0.041	···	···	
129d	14:24:14.98	-00:09:03.08	18.701	0.019	0.102	1.056	0.094	0.618	0.025	0.287	0.026	0.051	0.068	···	···	
130a	14:25:15.67	-00:29:58.32	17.292	0.008	0.133	1.665	0.051	0.919	0.009	0.452	0.008	0.379	0.009	0.1080	···	
130b	14:25:16.18	-00:29:34.67	19.674	0.023	0.132	2.040	0.484	1.056	0.037	0.478	0.030	0.325	0.055	···	···	
130c	14:25:15.53	-00:29:49.67	19.946	0.029	0.132	0.558	0.139	0.887	0.043	0.352	0.039	0.338	0.076	···	···	
130d	14:25:15.41	-00:29:45.93	20.059	0.026	0.132	0.521	0.113	0.784	0.037	0.238	0.038	0.623	0.062	···	···	
131a	14:25:27.65	00:20:16.10	16.267	0.006	0.088	2.022	0.051	1.127	0.007	0.437	0.007	0.397	0.007	0.1343	···	
131b	14:25:27.45	00:20:19.89	17.479	0.008	0.088	1.972	0.088	1.041	0.010	0.355	0.009	-0.018	0.022	···	···	
131c	14:25:29.62	00:20:47.59	18.488	0.011	0.088	2.077	0.162	1.043	0.015	0.455	0.013	0.348	0.024	···	···	
131d	14:25:28.16	00:20:34.37	19.143	0.452	0.088	1.735	2.239	1.051	0.490	-0.140	0.499	0.437	0.747	···	···	
132a	14:25:34.36	00:19:56.93	15.817	0.006	0.089	1.968	0.034	0.943	0.007	0.395	0.006	0.365	0.006	0.0845	0.0843	2dFGRSN344Z098
132b	14:25:33.09	00:19:58.98	18.000	0.009	0.089	1.883	0.096	0.930	0.012	0.402	0.011	0.309	0.020	···	···	
132c	14:25:33.14	00:19:17.20	18.116	0.010	0.089	2.106	0.175	1.065	0.014	0.404	0.012	0.387	0.025	···	···	
132d	14:25:33.48	00:19:51.44	18.600	0.013	0.089	1.715	0.135	0.828	0.017	0.439	0.016	0.340	0.034	···	···	
133a	14:29:32.63	00:29:37.72	16.660	0.009	0.102	1.722	0.067	0.932	0.010	0.561	0.009	0.451	0.008	0.0554	···	
133b	14:29:33.95	00:29:33.88	17.559	0.019	0.102	0.801	0.072	0.449	0.023	0.204	0.027	0.185	0.058	···	···	
133c	14:29:34.06	00:29:44.19	18.785	0.014	0.102	1.854	0.219	0.922	0.020	0.441	0.018	0.394	0.027	···	···	
133d	14:29:32.40	00:30:07.83	19.085	0.038	0.102	0.747	0.151	0.416	0.047	0.230	0.056	0.182	0.122	···	···	
134a	14:29:40.63	00:21:59.04	14.360	0.005	0.105	2.131	0.010	0.899	0.005	0.440	0.005	0.376	0.002	0.0556	···	
134b	14:29:39.14	00:22:39.90	16.378	0.006	0.105	1.947	0.027	0.868	0.006	0.440	0.006	0.340	0.005	···	···	
134c	14:29:39.54	00:22:03.56	17.020	0.010	0.105	1.677	0.080	0.875	0.013	0.349	0.012	0.196	0.025	···	···	
134d	14:29:41.83	00:22:08.51	17.253	0.008	0.105	1.830	0.060	0.827	0.009	0.432	0.009	0.324	0.014	0.0537	···	
134e	14:29:36.96	00:22:07.17	17.253	0.009	0.105	2.031	0.120	0.849	0.012	0.366	0.011	0.363	0.023	···	···	
135a	14:30:57.38	00:47:17.77	17.623	0.009	0.104	1.487	0.063	0.968	0.011	0.496	0.010	0.314	0.014	···	···	
135b	14:30:58.09	00:47:30.52	18.561	0.012	0.104	1.845	0.181	1.202	0.018	0.445	0.015	0.331	0.024	···	···	
135c	14:30:57.84	00:47:31.23	19.497	0.032	0.104	1.086	0.502	1.696	0.085	0.744	0.039	0.194	0.073	···	···	
135d	14:30:58.18	00:47:26.13	19.558	0.025	0.104	0.893	0.115	0.636	0.032	0.573	0.032	0.278	0.056	···	···	
136a	14:32:25.98	00:03:27.21	16.323	0.006	0.113	2.108	0.042	1.023	0.007	0.444	0.006	0.358	0.005	0.0929	0.0930	2dFGRSN346Z007
136b	14:32:26.40	00:02:51.23	17.037	0.007	0.114	1.671	0.068	1.267	0.009	0.436	0.008	0.346	0.011	···	···	
136c	14:32:27.68	00:03:11.16	17.767	0.009	0.114	2.298	0.108	1.067	0.010	0.388	0.009	0.300	0.012	···	···	
136d	14:32:26.86	00:02:52.00	17.963	0.011	0.114	1.775	0.130	1.032	0.015	0.475	0.013	0.022	0.029	···	···	
136e	14:32:25.81	00:03:14.77	18.588	0.015	0.113	1.210	0.077	0.497	0.018	0.284	0.019	0.111	0.054	···	···	
137a	14:33:27.16	-00:07:08.17	16.696	0.014	0.108	1.132	0.053	1.195	0.016	0.122	0.015	-0.273	0.035	···	0.0344	APMUKS(BJ) B143053.50+000603.0
137b	14:33:27.19	-00:07:09.26	17.952	0.046	0.108	1.270	0.044	-1.243	0.047	0.799	0.052	0.851	0.049	···	···	
137c	14:33:27.91	-00:06:53.03	19.234	0.063	0.107	0.669	0.120	-0.166	0.069	0.202	0.096	0.072	0.275	···	···	
137d	14:33:27.87	-00:07:14.01	19.260	0.045	0.108	-0.086	0.643	2.666	0.286	0.098	0.075	1.367	0.088	···	···	
138a	14:33:57.20	00:35:10.74	17.008	0.009	0.103	2.116	0.136	1.427	0.012	0.555	0.010	0.410	0.008	0.2221	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
138b	14:33:56.34	00:34:49.44	19.642	0.022	0.102	1.890	0.537	1.376	0.043	0.489	0.029	0.286	0.049	···	···	
138c	14:33:57.25	00:34:59.08	19.700	0.024	0.102	1.547	0.401	1.332	0.043	0.531	0.030	0.425	0.044	···	···	
138d	14:33:56.87	00:35:09.48	19.786	0.025	0.103	1.279	0.315	1.312	0.045	0.643	0.030	-1.514	0.226	···	···	
139a	14:35:47.68	-00:10:06.25	17.356	0.014	0.114	1.290	0.059	0.676	0.016	0.274	0.016	0.288	0.030	···	0.1066	2dFGRSN347Z210
139b	14:35:48.03	-00:09:55.91	17.442	0.008	0.114	1.965	0.062	0.983	0.009	0.462	0.008	0.421	0.009	0.0925	0.0930	2dFGRSN346Z169
139c	14:35:47.25	-00:09:45.56	18.989	0.016	0.114	2.157	0.397	1.373	0.031	0.537	0.019	0.399	0.034	···	···	
139d	14:35:47.79	-00:10:18.11	20.248	0.036	0.114	1.575	0.485	1.122	0.066	0.691	0.043	0.385	0.080	···	···	
140a	14:37:03.25	-00:36:02.64	17.930	0.011	0.103	2.025	0.212	1.319	0.017	0.572	0.012	0.337	0.017	···	0.2137	2dFGRSN280Z122
140b	14:37:03.03	-00:35:59.83	19.003	0.018	0.103	1.271	0.174	0.967	0.028	0.402	0.024	0.282	0.047	···	···	
140c	14:37:03.67	-00:35:51.02	19.232	0.019	0.103	1.630	0.275	1.042	0.029	0.581	0.022	0.303	0.040	···	···	
140d	14:37:03.49	-00:35:42.99	19.340	0.020	0.103	2.071	0.554	1.280	0.037	0.562	0.025	0.347	0.044	···	···	
141a	14:37:35.62	-00:33:24.20	16.099	0.008	0.098	2.180	0.094	1.231	0.009	0.556	0.008	0.405	0.006	0.1799	0.1797	2MASX J14373563-0033239
141b	14:37:34.42	-00:33:02.09	17.467	0.012	0.098	2.808	0.551	1.137	0.020	0.511	0.015	0.327	0.026	···	···	
141c	14:37:34.68	-00:33:40.80	18.637	0.013	0.098	1.958	0.259	1.197	0.019	0.525	0.015	0.375	0.022	···	···	
141d	14:37:33.91	-00:33:24.66	19.056	0.015	0.098	2.010	0.348	1.179	0.024	0.531	0.018	0.393	0.028	···	···	
142a	14:38:03.69	-00:19:18.65	17.505	0.011	0.107	2.167	0.197	1.439	0.016	0.556	0.012	0.395	0.013	0.2470	···	
142b	14:38:03.32	-00:19:30.73	19.612	0.020	0.106	2.560	0.711	1.409	0.037	0.520	0.023	0.411	0.036	···	···	
142c	14:38:04.29	-00:19:29.88	19.883	0.029	0.107	1.014	0.168	0.724	0.040	0.207	0.040	0.232	0.097	···	···	
142d	14:38:04.26	-00:19:35.75	20.413	0.041	0.107	1.119	0.430	1.191	0.077	0.365	0.055	0.225	0.129	···	···	
143a	14:41:19.04	00:58:12.77	17.866	0.010	0.122	2.035	0.236	1.465	0.017	0.515	0.012	0.424	0.015	···	···	
143b	14:41:18.45	00:58:08.59	18.123	0.011	0.123	2.378	0.308	1.398	0.017	0.489	0.012	0.381	0.017	···	···	
143c	14:41:19.81	00:58:13.46	18.918	0.020	0.122	1.745	0.395	1.312	0.036	0.496	0.024	0.309	0.043	···	···	
143d	14:41:18.82	00:58:26.75	20.396	0.066	0.122	0.714	0.498	1.106	0.118	0.417	0.090	0.412	0.166	···	···	
144a	14:43:18.35	-00:48:03.12	17.470	0.011	0.110	1.594	0.083	0.990	0.013	0.478	0.012	0.357	0.012	0.1466	0.1464	2dFGRSN282Z141
144b	14:43:17.37	-00:48:12.92	18.125	0.013	0.110	2.245	0.223	1.018	0.017	0.419	0.014	0.323	0.019	···	···	
144c	14:43:17.18	-00:48:06.11	20.237	0.039	0.110	2.400	1.221	1.256	0.073	0.702	0.046	0.503	0.062	···	···	
144d	14:43:17.23	-00:48:10.98	20.379	0.038	0.110	0.837	0.199	0.593	0.053	0.431	0.050	-0.208	0.140	···	···	
145a	14:44:35.86	-01:08:18.14	16.948	0.009	0.123	2.108	0.089	1.119	0.012	0.515	0.010	0.380	0.008	···	···	
145b	14:44:34.96	-01:07:51.32	17.537	0.019	0.123	1.395	0.155	1.078	0.032	0.499	0.023	0.443	0.033	···	···	
145c	14:44:36.55	-01:07:50.70	18.107	0.011	0.123	2.026	0.134	1.086	0.016	0.498	0.012	0.356	0.014	···	···	
145d	14:44:36.25	-01:08:25.98	18.834	0.064	0.123	0.645	0.357	0.997	0.123	1.040	0.072	0.404	0.084	···	···	
145e	14:44:35.89	-01:07:58.77	19.208	0.019	0.123	1.660	0.247	1.043	0.035	0.489	0.024	0.383	0.037	···	···	
145f	14:44:36.38	-01:08:27.98	19.898	0.026	0.123	3.486	1.160	0.969	0.048	0.518	0.033	0.097	0.068	···	···	
146a	14:45:18.27	00:33:59.15	17.722	0.012	0.143	1.464	0.093	0.997	0.016	0.460	0.014	0.353	0.018	···	···	
146b	14:45:19.49	00:34:16.20	19.157	0.013	0.143	1.747	0.132	0.845	0.017	0.239	0.017	0.209	0.032	···	···	
146c	14:45:18.83	00:34:08.04	19.178	0.021	0.143	1.344	0.172	0.856	0.030	0.434	0.027	0.379	0.043	···	···	
146d	14:45:19.22	00:33:51.34	20.298	0.045	0.142	2.361	0.949	0.863	0.070	0.442	0.060	0.437	0.099	···	···	
146e	14:45:19.32	00:34:03.99	20.313	0.036	0.143	2.741	1.179	1.521	0.086	0.548	0.046	0.376	0.075	···	···	
147a	14:45:35.36	-01:02:01.79	17.417	0.009	0.121	2.254	0.136	1.065	0.013	0.462	0.010	0.300	0.014	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	u^*-g^*	$\sigma_{u^*-g^*}$	g^*-r^*	$\sigma_{g^*-r^*}$	r^*-i^*	$\sigma_{r^*-i^*}$	i^*-z^*	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
147b	14:45:36.76	-01:02:16.34	18.820	0.023	0.121	1.613	0.269	0.977	0.039	0.478	0.030	0.405	0.050	···	···	
147c	14:45:35.74	-01:01:59.68	19.788	0.031	0.121	1.550	0.435	1.201	0.063	0.256	0.045	0.275	0.100	···	···	
147d	14:45:36.61	-01:02:05.37	20.192	0.152	0.121	0.387	0.656	0.952	0.272	0.432	0.206	-0.014	0.529	···	···	
148a	14:47:16.50	00:55:24.15	16.743	0.008	0.142	2.127	0.102	1.072	0.010	0.486	0.009	0.425	0.009	···	0.1373	2dFGRSN349Z047
148b	14:47:15.70	00:55:34.97	17.448	0.009	0.142	1.729	0.081	1.061	0.011	0.526	0.009	0.430	0.010	0.1373	···	
148c	14:47:13.93	00:55:23.10	18.213	0.012	0.142	2.264	0.241	1.070	0.016	0.476	0.013	0.412	0.019	···	···	
148d	14:47:15.20	00:55:48.11	19.535	0.200	0.142	1.994	2.325	0.450	0.247	0.236	0.278	-2.512	6.258	···	···	
149a	14:48:38.55	00:38:45.38	16.262	0.009	0.112	1.491	0.060	1.010	0.011	0.427	0.010	0.294	0.013	0.1405	···	
149b	14:48:35.87	00:38:54.66	18.846	0.014	0.112	1.205	0.187	1.589	0.030	0.589	0.017	0.347	0.026	···	···	
149c	14:48:37.24	00:38:50.56	18.875	0.013	0.112	1.806	0.185	1.169	0.020	0.451	0.016	0.290	0.026	···	···	
149d	14:48:38.78	00:38:53.71	18.920	0.015	0.112	1.873	0.200	1.034	0.021	0.399	0.018	0.346	0.030	···	···	
150a	14:53:11.13	00:58:23.39	16.498	0.012	0.145	1.377	0.075	0.847	0.015	0.327	0.014	0.304	0.021	···	···	
150b	14:53:09.04	00:58:29.63	16.625	0.011	0.144	1.074	0.044	0.435	0.013	0.170	0.014	0.175	0.031	0.1193	···	
150c	14:53:09.85	00:58:38.57	16.878	0.010	0.144	1.423	0.056	0.920	0.012	0.509	0.011	0.357	0.012	···	···	
150d	14:53:09.29	00:58:05.77	19.098	0.023	0.144	1.106	0.125	0.538	0.030	-0.012	0.037	0.409	0.080	···	···	
151a	14:53:19.49	-00:37:42.91	17.763	0.009	0.149	0.540	0.016	0.379	0.010	0.308	0.010	0.010	0.019	0.1857	···	
151b	14:53:19.00	-00:37:29.74	19.348	0.022	0.149	1.249	0.250	1.210	0.039	0.446	0.028	0.434	0.047	···	···	
151c	14:53:19.89	-00:37:25.92	19.855	0.026	0.150	2.064	0.595	1.159	0.047	0.557	0.033	0.269	0.060	···	···	
151d	14:53:20.20	-00:37:22.50	20.681	0.052	0.150	2.067	1.108	1.160	0.099	0.354	0.074	0.575	0.125	···	···	
152a	14:54:08.05	-00:10:57.09	17.333	0.016	0.143	1.352	0.074	0.454	0.019	0.269	0.020	0.078	0.052	···	···	
152b	14:54:08.87	-00:11:02.58	19.059	0.015	0.143	2.594	0.542	1.405	0.028	0.556	0.018	0.466	0.028	···	···	
152c	14:54:08.38	-00:11:03.70	19.693	0.027	0.143	1.481	0.228	0.717	0.038	0.456	0.035	0.199	0.083	···	···	
152d	14:54:07.41	-00:11:12.25	19.753	0.025	0.144	1.172	0.173	0.798	0.036	0.457	0.032	0.093	0.084	···	···	
153a	14:56:16.53	00:19:55.11	17.280	0.008	0.121	2.042	0.083	1.111	0.010	0.465	0.009	0.362	0.010	0.1393	···	
153b	14:56:16.36	00:19:55.86	18.047	0.012	0.121	2.426	0.308	1.265	0.017	0.466	0.014	0.325	0.025	···	···	
153c	14:56:15.97	00:19:46.72	19.472	0.017	0.121	2.263	0.399	1.159	0.025	0.383	0.021	0.346	0.040	···	···	
153d	14:56:15.61	00:19:50.36	19.752	0.027	0.121	1.155	0.139	0.365	0.032	0.243	0.038	0.021	0.125	···	···	
153e	14:56:16.06	00:20:02.90	19.906	0.025	0.121	1.956	0.482	1.019	0.038	0.323	0.035	0.596	0.065	···	···	
154a	14:56:30.81	00:13:34.93	17.621	0.010	0.128	1.952	0.146	1.215	0.014	0.503	0.012	0.406	0.017	0.1849	···	
154b	14:56:30.99	00:13:42.36	19.217	0.016	0.129	1.521	0.196	1.143	0.024	0.571	0.019	0.510	0.029	···	···	
154c	14:56:32.16	00:13:29.37	20.250	0.038	0.129	1.212	0.284	0.652	0.051	0.344	0.053	0.035	0.173	···	···	
154d	14:56:32.28	00:13:35.04	20.534	0.069	0.129	0.882	0.410	0.706	0.097	0.129	0.110	-0.300	0.538	···	···	
155a	14:57:38.10	-00:04:37.89	17.684	0.017	0.154	1.162	0.043	0.266	0.018	0.172	0.021	0.001	0.050	0.0420	···	
155b	14:57:37.84	-00:04:48.69	18.482	0.014	0.154	1.653	0.132	1.012	0.019	0.512	0.016	0.389	0.025	···	···	
155c	14:57:37.35	-00:04:38.80	18.791	0.014	0.154	2.562	0.443	1.413	0.024	1.028	0.015	0.573	0.014	···	···	
155d	14:57:37.70	-00:04:26.60	19.958	0.042	0.153	1.032	0.237	0.769	0.059	0.398	0.057	0.201	0.130	···	···	
156a	15:03:42.69	-00:46:47.01	17.439	0.010	0.154	1.222	0.093	1.107	0.015	0.505	0.012	0.415	0.017	···	···	
156b	15:03:43.35	-00:46:36.62	18.555	0.015	0.154	1.706	0.245	1.403	0.024	0.514	0.017	0.381	0.021	···	···	
156c	15:03:43.45	-00:46:50.61	19.216	0.016	0.154	3.517	1.287	1.494	0.030	0.526	0.018	0.423	0.026	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
156d	15:03:43.15	-00:46:29.49	19.902	0.032	0.154	1.968	0.783	1.208	0.058	0.466	0.040	0.405	0.068	···	···	
157a	15:07:37.54	00:02:24.29	17.441	0.012	0.147	2.019	0.193	1.543	0.017	0.542	0.013	0.356	0.017	0.2314	···	
157b	15:07:37.59	00:02:27.94	18.727	0.020	0.147	1.896	0.398	1.387	0.035	0.656	0.023	0.033	0.053	···	···	
157c	15:07:37.85	00:02:22.00	19.530	0.022	0.147	1.872	0.516	1.617	0.045	0.469	0.026	0.315	0.053	···	···	
157d	15:07:37.71	00:02:33.69	19.824	0.025	0.148	2.198	0.670	1.435	0.048	0.567	0.030	0.276	0.061	···	···	
158a	15:07:46.98	-00:30:04.30	17.675	0.010	0.167	2.252	0.158	1.127	0.012	0.509	0.011	0.330	0.013	0.1525	···	
158b	15:07:47.00	-00:30:08.36	18.821	0.015	0.167	1.831	0.221	1.114	0.022	0.455	0.018	0.330	0.028	···	···	
158c	15:07:46.73	-00:30:07.68	19.367	0.023	0.167	1.814	0.581	1.475	0.050	0.511	0.030	0.147	0.061	···	···	
158d	15:07:47.87	-00:30:01.37	19.997	0.030	0.168	2.072	0.622	0.926	0.046	0.423	0.040	0.256	0.083	···	···	
159a	15:08:30.67	-00:14:49.33	16.724	0.009	0.156	1.921	0.046	1.005	0.010	0.497	0.010	0.410	0.006	0.0948	···	
159b	15:08:29.86	-00:14:48.37	18.565	0.022	0.157	1.683	0.217	0.825	0.029	0.521	0.026	0.363	0.043	···	···	
159c	15:08:30.90	-00:14:29.61	18.887	0.019	0.156	1.300	0.231	1.368	0.035	0.651	0.022	0.496	0.031	···	···	
159d	15:08:30.51	-00:14:43.65	19.187	0.036	0.156	0.701	0.098	0.291	0.043	0.418	0.046	-0.073	0.124	···	···	
160a	15:09:28.03	00:53:54.90	17.972	0.011	0.149	2.518	0.358	1.544	0.017	0.553	0.012	0.308	0.016	···	···	
160b	15:09:27.89	00:53:49.54	18.953	0.016	0.149	2.656	0.677	1.483	0.028	0.532	0.019	0.334	0.030	···	···	
160c	15:09:26.81	00:53:49.34	20.209	0.044	0.149	0.729	0.461	1.526	0.098	0.586	0.056	0.347	0.101	···	···	
160d	15:09:27.11	00:53:57.44	20.805	0.045	0.149	1.023	0.541	1.485	0.095	0.528	0.058	0.475	0.098	···	···	
161a	15:09:37.81	00:48:25.34	15.373	0.006	0.149	1.983	0.016	0.905	0.006	0.478	0.006	0.331	0.002	···	···	
161b	15:09:39.71	00:47:39.45	16.889	0.007	0.149	2.010	0.036	0.947	0.008	0.475	0.007	0.338	0.005	0.0725	···	
161c	15:09:38.35	00:48:24.19	16.935	0.007	0.149	1.980	0.039	0.907	0.008	0.470	0.008	0.291	0.007	···	···	
161d	15:09:35.98	00:48:29.79	17.282	0.011	0.150	1.101	0.028	0.420	0.011	0.330	0.012	0.122	0.021	0.0943	···	
162a	15:12:34.36	00:19:36.51	17.240	0.009	0.133	1.945	0.086	0.998	0.010	0.453	0.010	0.389	0.014	···	···	
162b	15:12:35.03	00:19:41.76	17.461	0.009	0.133	2.012	0.085	0.963	0.010	0.484	0.010	0.312	0.014	0.1174	···	
162c	15:12:35.22	00:19:39.82	18.931	0.017	0.133	1.978	0.237	0.807	0.023	0.444	0.022	0.134	0.056	···	···	
162d	15:12:33.01	00:19:41.60	20.104	0.048	0.133	0.692	0.285	0.951	0.075	0.407	0.066	0.087	0.208	···	···	
162e	15:12:33.24	00:19:21.65	20.145	0.034	0.133	1.048	0.289	1.010	0.054	0.552	0.043	0.404	0.093	···	···	
163a	15:14:31.91	-00:13:34.46	17.831	0.021	0.142	1.143	0.067	0.381	0.024	0.353	0.025	0.187	0.046	···	···	
163b	15:14:31.80	-00:13:37.43	19.304	0.051	0.142	2.602	3.261	2.023	0.192	0.596	0.063	0.422	0.110	···	···	
163c	15:14:32.32	-00:13:33.79	19.565	0.028	0.142	0.853	0.196	1.188	0.050	0.467	0.035	0.463	0.058	···	···	
163d	15:14:31.77	-00:13:43.52	19.790	0.023	0.142	1.921	0.442	1.362	0.043	0.395	0.028	0.191	0.057	···	···	
163e	15:14:32.42	-00:13:52.70	20.405	0.036	0.142	0.828	0.182	0.730	0.053	0.153	0.052	0.326	0.121	···	···	
164a	15:14:46.28	00:03:22.34	17.158	0.013	0.142	1.608	0.066	0.879	0.015	0.577	0.014	0.364	0.015	0.0716	···	
164b	15:14:45.20	00:03:04.64	19.438	0.028	0.142	1.566	0.479	1.344	0.056	0.723	0.033	0.434	0.057	···	···	
164c	15:14:44.91	00:03:22.01	19.443	0.028	0.142	0.465	0.109	0.819	0.040	0.390	0.036	0.162	0.098	···	···	
164d	15:14:45.37	00:03:01.08	19.895	0.037	0.142	1.260	0.338	0.950	0.057	0.495	0.046	0.458	0.094	···	···	
165a	15:14:47.32	-00:09:01.89	17.138	0.010	0.146	1.494	0.040	0.589	0.011	0.403	0.011	0.227	0.016	0.1001	···	
165b	15:14:48.43	-00:09:11.78	19.545	0.021	0.146	2.248	0.638	1.451	0.043	0.645	0.025	0.399	0.042	···	···	
165c	15:14:47.21	-00:08:58.10	19.561	0.039	0.146	0.058	0.101	0.653	0.058	0.413	0.054	-0.321	0.199	···	···	
165d	15:14:46.50	-00:09:05.02	19.689	0.027	0.145	1.061	0.219	1.036	0.044	0.420	0.036	0.381	0.073	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
166a	15:16:10.16	00:27:41.02	15.854	0.008	0.141	2.161	0.032	1.019	0.008	0.450	0.008	0.380	0.003	···	···	
166b	15:16:09.06	00:28:15.05	16.727	0.009	0.141	2.340	0.084	1.127	0.010	0.519	0.009	0.433	0.006	0.1091	···	
166c	15:16:11.89	00:27:28.79	17.123	0.011	0.141	2.042	0.094	1.016	0.013	0.464	0.012	0.372	0.011	0.1061	···	
166d	15:16:09.28	00:27:46.66	18.202	0.013	0.141	2.058	0.157	0.942	0.017	0.444	0.015	0.234	0.023	···	···	
166e	15:16:12.10	00:27:43.58	18.311	0.012	0.140	2.110	0.130	0.972	0.014	0.451	0.013	0.332	0.016	···	···	
167a	15:16:23.10	-00:18:05.10	15.196	0.009	0.158	2.006	0.021	0.926	0.009	0.486	0.009	0.385	0.003	0.0509	···	
167b	15:16:23.33	-00:16:51.78	16.124	0.011	0.158	1.666	0.055	0.991	0.012	0.452	0.012	0.302	0.011	0.1217	···	
167c	15:16:22.92	-00:17:27.76	16.531	0.018	0.158	1.384	0.117	1.055	0.023	0.265	0.021	0.355	0.033	···	···	
167d	15:16:21.67	-00:18:14.00	17.981	0.016	0.158	1.830	0.148	0.754	0.020	0.360	0.019	0.297	0.034	···	···	
168a	15:16:23.48	00:06:09.12	16.782	0.010	0.153	1.942	0.067	1.046	0.011	0.485	0.011	0.421	0.009	0.1152	···	
168b	15:16:23.60	00:05:58.29	17.773	0.013	0.153	2.174	0.160	0.982	0.015	0.487	0.014	0.401	0.020	···	···	
168c	15:16:24.15	00:06:12.39	19.543	0.025	0.153	1.175	0.213	0.972	0.038	0.432	0.032	0.334	0.073	···	···	
168d	15:16:24.54	00:05:57.13	19.634	0.029	0.154	1.381	0.418	1.334	0.055	0.601	0.036	0.344	0.074	···	···	
169a	15:16:48.17	-00:48:30.42	17.391	0.011	0.186	1.933	0.113	1.078	0.013	0.508	0.012	0.468	0.011	0.1191	···	
169b	15:16:49.37	-00:48:37.04	18.042	0.015	0.186	1.341	0.082	0.760	0.017	0.434	0.016	0.310	0.023	···	···	
169c	15:16:47.95	-00:48:40.80	19.069	0.017	0.186	1.664	0.216	1.072	0.024	0.455	0.020	0.408	0.029	···	···	
169d	15:16:48.03	-00:48:22.76	19.324	0.023	0.186	1.341	0.191	0.760	0.030	0.417	0.028	0.487	0.044	···	···	
170a	15:17:22.36	00:00:00.52	17.476	0.011	0.166	1.832	0.077	0.998	0.012	0.440	0.011	0.364	0.013	0.1380	···	
170b	15:17:23.34	00:00:05.45	18.159	0.016	0.166	1.313	0.100	0.770	0.019	0.508	0.018	0.254	0.035	···	···	
170c	15:17:23.49	00:00:12.10	18.571	0.021	0.166	0.898	0.113	0.809	0.028	0.323	0.027	0.264	0.067	···	···	
170d	15:17:21.88	00:00:24.10	19.147	0.023	0.165	0.735	0.086	0.556	0.028	0.193	0.031	-0.040	0.111	···	···	
170e	15:17:21.61	00:00:13.78	20.125	0.044	0.165	1.499	0.491	0.797	0.064	0.214	0.063	0.708	0.128	···	···	
171a	15:22:42.19	00:41:30.15	17.348	0.009	0.157	2.165	0.084	0.766	0.010	0.359	0.010	0.235	0.014	0.0761	···	
171b	15:22:42.36	00:41:33.22	17.697	0.009	0.157	1.062	0.023	0.394	0.010	0.420	0.010	0.110	0.016	···	···	
171c	15:22:42.70	00:41:06.04	18.776	0.018	0.157	0.447	0.071	0.872	0.026	0.486	0.023	0.416	0.040	···	···	
171d	15:22:43.60	00:41:06.74	19.507	0.023	0.157	4.299	1.228	1.527	0.051	0.559	0.029	0.364	0.050	···	···	
172a	15:31:28.88	-01:07:09.93	16.368	0.009	0.440	2.623	0.167	1.309	0.012	0.511	0.010	0.382	0.008	···	···	
172b	15:31:28.43	-01:07:10.82	18.093	0.011	0.440	2.070	0.186	1.329	0.019	0.526	0.013	0.313	0.016	···	···	
172c	15:31:30.46	-01:07:26.30	18.186	0.010	0.437	1.870	0.165	1.237	0.019	0.441	0.012	0.398	0.018	···	···	
172d	15:31:27.63	-01:07:40.34	18.890	0.016	0.439	2.059	0.259	1.136	0.026	0.506	0.018	0.384	0.026	···	···	
172e	15:31:28.76	-01:07:04.94	18.991	0.023	0.440	0.558	0.291	2.109	0.096	0.525	0.029	0.399	0.045	···	···	
173a	15:31:39.62	00:31:20.14	17.075	0.009	0.176	1.813	0.057	0.892	0.010	0.439	0.010	0.332	0.009	0.0800	···	
173b	15:31:38.72	00:31:15.55	17.183	0.009	0.177	2.073	0.076	0.957	0.010	0.462	0.010	0.345	0.009	···	···	
173c	15:31:40.22	00:31:01.10	17.855	0.013	0.176	1.414	0.069	0.770	0.015	0.493	0.015	0.345	0.017	···	···	
173d	15:31:40.19	00:31:24.43	18.894	0.044	0.175	0.691	0.434	1.520	0.106	0.718	0.054	0.412	0.081	···	···	
174a	15:33:03.01	00:17:01.31	15.109	0.006	0.189	1.988	0.020	0.962	0.006	0.497	0.006	0.377	0.003	···	···	
174b	15:33:01.59	00:17:01.77	16.262	0.007	0.188	2.044	0.032	0.969	0.007	0.462	0.007	0.379	0.005	···	···	
174c	15:33:00.92	00:17:02.81	17.521	0.008	0.188	1.665	0.044	0.831	0.009	0.380	0.009	0.363	0.011	···	···	
174d	15:32:58.17	00:16:56.81	18.087	0.010	0.186	1.274	0.053	0.697	0.012	0.477	0.012	0.227	0.023	···	···	

Table 2—Continued

Name	α [J2000.0]	δ [J2000.0]	r^*	σ_{r^*}	$A(r^*)$	$u^* - g^*$	$\sigma_{u^*-g^*}$	$g^* - r^*$	$\sigma_{g^*-r^*}$	$r^* - i^*$	$\sigma_{r^*-i^*}$	$i^* - z^*$	$\sigma_{i^*-z^*}$	$z_{\rm sp}$	$z_{\rm NED}$	Notes
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
175a	15:36:50.89	00:34:04.09	17.808	0.011	0.220	1.862	0.152	1.313	0.016	0.567	0.012	0.372	0.014	···	···	
175b	15:36:50.12	00:34:20.30	18.558	0.013	0.220	1.946	0.222	1.332	0.021	0.492	0.015	0.440	0.020	···	···	
175c	15:36:49.77	00:34:12.57	18.682	0.015	0.219	2.102	0.304	1.234	0.024	0.469	0.018	0.335	0.029	···	···	
175d	15:36:50.70	00:34:05.24	19.856	0.036	0.220	1.527	0.506	1.190	0.067	0.612	0.045	0.083	0.094	···	···	
175e	15:36:50.25	00:34:16.37	20.782	0.051	0.220	1.033	0.333	0.759	0.076	0.353	0.072	-0.650	0.329	···	···	
Tri1a	11:01:14.24	+00:22:48.88	17.638	0.013	0.079	0.542	0.024	0.441	0.014	0.356	0.015	0.136	0.033	0.214802	0.2148	SDSSQSOJ110114.24+002248.9
Tri1b	11:01:14.18	+00:22:38.65	19.063	0.017	0.079	1.049	0.074	0.580	0.019	0.357	0.021	0.189	0.051	···	···	
Tri1c	11:01:13.59	+00:22:42.15	19.585	0.021	0.079	1.406	0.202	0.951	0.029	0.621	0.025	0.344	0.049	···	···	
Tri1d	11:01:14.47	+00:22:43.86	20.634	0.052	0.079	0.562	0.170	0.390	0.064	0.354	0.074	-0.257	0.322	···	···	
Tri2a	13:10:35.46	-00:14:03.19	17.118	0.010	0.069	1.987	0.077	0.982	0.012	0.515	0.010	0.429	0.009	···	···	
Tri2b	13:10:36.45	-00:14:25.87	19.245	0.015	0.069	0.205	0.025	0.320	0.017	0.082	0.019	0.454	0.034	···	0.29	2QZJ131036.4-001426
Tri2c	13:10:36.23	-00:14:05.83	19.873	0.053	0.070	1.461	0.283	0.458	0.063	0.257	0.067	0.302	0.134	···	···	
Tri2d	13:10:35.90	-00:14:30.94	19.901	0.028	0.069	3.180	1.326	1.349	0.060	0.567	0.034	0.437	0.057	···	···	

Table 3. Comparison between SDSS Compact Group Properties and other CGs

Catalog	# of CGs	N		μ_G [mag arcsec^{-2}]		z		θ_G [deg]		$D \times \theta_G$ [h^{-1}kpc]	
		mean	median	mean	median	mean	median	mean	median	mean	median
SDSSCG	175	4.25±0.04	4.00	23.39±0.04	23.51	0.135±0.005[a]	0.126[a]	0.0088±0.0003	0.0073	58±2[a]	55[a]
PCG	84	4.15±0.04	4.00	23.25±0.05[b]	23.32[b]	···	≈ 0.1[c]	0.0114±0.0003	0.0113	···	···
SCG	121	4.29±0.05	4.00	25.50±0.08[d]	25.68[d]	···	···	0.15±0.01	0.125	···	···
UZC CG	291	3.39±0.05	3.00	···	···	0.0173±0.0004	0.0171	···	···	147±3	152
LCCG	76	3.33±0.08	3.00	···	···	0.079±0.003	0.075	0.016±0.001	0.013	53±2	52
RSCG	89	3.65±0.14	3.00	···	···	0.014±0.001	0.014	0.18±0.02	0.08	60±3	55
HCG	92[e]	4.55±0.09	4.00	23.4±0.1[f]	23.4[f]	0.034±0.002	0.030	0.061±0.005	0.048	84±5	70

[a]Based upon the 131 SDSS CGs (75%) that have a spectroscopic redshift determination

[b]Converted from Thuan-Gunn $r_{\rm TG}$ to SDSS r^* magnitudes assuming $r^* - r_{\rm TG} \approx 0.1$ for an elliptical galaxy; see Thuan & Gunn (1976), Smith et al. (2002), and Fukugita et al. (1995)

[c]Determined photometrically, based upon the magnitude distribution of the brightest group members; see Iovino et al. (2003)

[d]Converted from b_j to r^* magnitudes assuming $b_j - r^* \approx 1.0$ for an elliptical galaxy; see Blanton et al. (2001) and Iovino (2002)

[e]Here, we consider only the HCGs from the Hickson (1993) "cleaned" sample.

[f]Converted from E to r^* magnitudes assuming $r^* - E \approx 0.3$ for an elliptical galaxy; see Blanton et al. (2001) and Iovino (2002)

Table 4. Mean and Median Properties for the SDSSCG Galaxy and SDSS Field Galaxy Samples

Test	SDSSCG Sample		SDSS Field Sample	
	mean	median	mean	median
$z_{\rm sp}$	0.130±0.005	0.120	0.130±0.002	0.120
$M_{r^*} - 5\log(h)$	−21.166±0.096	−21.264	−21.292±0.028	−21.293
$M_{u^*} - M_{g^*}$	1.550±0.025	1.659	1.485±0.007	1.575
$M_{g^*} - M_{r^*}$	0.710±0.012	0.756	0.683±0.003	0.730
$M_{r^*} - M_{i^*}$	0.364±0.008	0.393	0.351±0.003	0.378
$M_{i^*} - M_{z^*}$	0.233±0.016	0.272	0.240±0.006	0.268

Table 5. Results from the 1D Kolmogorov-Smirnov Tests

Test	KS Statistic	Probability
$z_{\rm sp}$	0.01203	1.00000
$M_{r^*} - 5\log(h)$	0.06139	0.65114
$M_{u^*} - M_{g^*}$	0.19557	0.00003
$M_{g^*} - M_{r^*}$	0.16519	0.00079
$M_{r^*} - M_{i^*}$	0.13418	0.01135
$M_{i^*} - M_{z^*}$	0.05380	0.80009

Table 6. Results from the 2D Kolmogorov-Smirnov Tests

Test	KS Statistic	Probability
$z_{\rm sp}$ vs. $M_{g^*} - M_{r^*}$	0.05316	0.90385
$M_{u^*} - M_{g^*}$ vs. $M_{r^*} - 5\log(h)$	0.19937	0.00054
$M_{g^*} - M_{r^*}$ vs. $M_{r^*} - 5\log(h)$	0.17627	0.00296
$M_{r^*} - M_{i^*}$ vs. $M_{r^*} - 5\log(h)$	0.14778	0.02209
$M_{i^*} - M_{z^*}$ vs. $M_{r^*} - 5\log(h)$	0.07911	0.54591
$M_{g^*} - M_{r^*}$ vs. $M_{u^*} - M_{g^*}$	0.23006	0.00002
$M_{r^*} - M_{i^*}$ vs. $M_{g^*} - M_{r^*}$	0.18354	0.00109
$M_{i^*} - M_{z^*}$ vs. $M_{r^*} - M_{i^*}$	0.15791	0.00971